

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

Your Ref : OP158365
R00014

Case Ref : PRM-IOP-0333

IN Number : As listed

Date: 26th May 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 11th May 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.

This authorisation applies to the following inclusive.

Operator	Class	Vehicle	Cab	V4.0 Installation Date	IN
Abellio ScotRail	153	153305	A	16/04/2021	UK/51/2021/0024
Abellio ScotRail	153	153370	A	16/04/2021	UK/51/2021/0024
Abellio ScotRail	153	153377	A	16/04/2021	UK/51/2021/0024
Abellio ScotRail	156	156430	A	09/04/2021	UK/51/2021/0002
Abellio ScotRail	156	156430	B	09/04/2021	UK/51/2021/0002
Abellio ScotRail	156	156431	A	22/03/2021	UK/51/2021/0002
Abellio ScotRail	156	156431	B	22/03/2021	UK/51/2021/0002
Abellio ScotRail	156	156432	A	23/03/2021	UK/51/2021/0002
Abellio ScotRail	156	156432	B	23/03/2021	UK/51/2021/0002
Abellio ScotRail	156	156433	A	21/04/2021	UK/51/2021/0002
Abellio ScotRail	156	156434	A	02/04/2021	UK/51/2021/0002
Abellio ScotRail	156	156434	B	02/04/2021	UK/51/2021/0002
Abellio ScotRail	156	156435	A	02/04/2021	UK/51/2021/0002
Abellio ScotRail	156	156435	B	02/04/2021	UK/51/2021/0002
Abellio ScotRail	156	156436	A	26/03/2021	UK/51/2021/0002
Abellio ScotRail	156	156436	B	26/03/2021	UK/51/2021/0002
Abellio ScotRail	156	156437	A	14/04/2021	UK/51/2021/0002
Abellio ScotRail	156	156437	B	15/04/2021	UK/51/2021/0002
Abellio ScotRail	156	156439	A	31/03/2021	UK/51/2021/0002
Abellio ScotRail	156	156439	B	31/03/2021	UK/51/2021/0002
Abellio ScotRail	156	156442	A	20/03/2021	UK/51/2021/0002
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Abellio ScotRail	156	156445	B	15/04/2021	UK/51/2021/0002
Abellio ScotRail	156	156446	A	26/03/2021	UK/51/2021/0002
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Abellio ScotRail	156	156450	B	01/04/2021	UK/51/2021/0002
Abellio ScotRail	156	156453	A	14/04/2021	UK/51/2021/0002
Abellio ScotRail	156	156453	B	14/04/2021	UK/51/2021/0002
Abellio ScotRail	156	156456	A	08/04/2021	UK/51/2021/0002
Abellio ScotRail	156	156456	B	08/04/2021	UK/51/2021/0002

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Abellio ScotRail	156	156457	B	06/04/2021	UK/51/2021/0002
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Abellio ScotRail	156	156458	B	27/04/2021	UK/51/2021/0002
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Abellio ScotRail	156	156504	B	06/04/2021	UK/51/2021/0002
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Abellio ScotRail	156	156513	B	14/04/2021	UK/51/2021/0002
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Abellio ScotRail	158	158723	B	29/04/2021	UK/51/2020/0013
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Abellio ScotRail	158	158724	B	12/04/2021	UK/51/2020/0013
Abellio ScotRail	158	158725	A	26/03/2021	UK/51/2020/0013
Abellio ScotRail	158	158725	B	09/04/2021	UK/51/2020/0013
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Abellio ScotRail	158	158726	B	09/04/2021	UK/51/2020/0013
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Abellio ScotRail	170	170408	A	30/04/2021	UK/51/2020/0051
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Abellio ScotRail	170	170427	B	24/04/2021	UK/51/2020/0051
Abellio ScotRail	170	170433	B	25/03/2021	UK/51/2020/0051
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Abellio ScotRail	170	170450	B	25/04/2021	UK/51/2020/0051
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Abellio ScotRail	318	318261	A	10/03/2021	UK/51/2021/0003
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Abellio ScotRail	318	318262	A	26/03/2021	UK/51/2021/0003
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Abellio ScotRail	318	318270	A	09/03/2021	UK/51/2021/0003
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Abellio ScotRail	320	320414	A	18/03/2021	UK/51/2021/0004
Abellio ScotRail	320	320414	B	12/03/2021	UK/51/2021/0004
Abellio ScotRail	320	320415	A	17/03/2021	UK/51/2021/0004
Abellio ScotRail	320	320415	B	17/03/2021	UK/51/2021/0004
Abellio ScotRail	320	320416	A	07/04/2021	UK/51/2021/0004
Abellio ScotRail	320	320416	B	07/04/2021	UK/51/2021/0004
Abellio ScotRail	320	320417	A	18/03/2021	UK/51/2021/0004
Abellio ScotRail	320	320417	B	18/03/2021	UK/51/2021/0004
Abellio ScotRail	320	320418	A	12/03/2021	UK/51/2021/0004
Abellio ScotRail	320	320418	B	12/03/2021	UK/51/2021/0004
Abellio ScotRail	320	320420	A	17/03/2021	UK/51/2021/0004
Abellio ScotRail	320	320420	B	17/03/2021	UK/51/2021/0004
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Abellio ScotRail	334	334002	B	26/03/2021	UK/51/2021/0005
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Abellio ScotRail	334	334003	B	08/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334004	A	22/04/2021	UK/51/2021/0005
Abellio ScotRail	334	334004	B	22/04/2021	UK/51/2021/0005
Abellio ScotRail	334	334012	A	10/03/2021	UK/51/2021/0005
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Abellio ScotRail	334	334013	A	17/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334013	B	17/03/2021	UK/51/2021/0005
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Abellio ScotRail	334	334015	A	08/03/2021	UK/51/2021/0005
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Abellio ScotRail	334	334018	A	17/03/2021	UK/51/2021/0005
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Abellio ScotRail	334	334019	A	08/04/2021	UK/51/2021/0005

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Abellio ScotRail	334	334021	A	11/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334021	B	11/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334022	A	14/04/2021	UK/51/2021/0005
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Abellio ScotRail	334	334024	A	02/04/2021	UK/51/2021/0005
Abellio ScotRail	334	334024	B	16/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334025	A	10/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334025	B	10/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334029	A	08/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334029	B	08/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334031	A	11/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334031	B	11/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334033	A	16/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334033	B	16/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334037	A	18/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334037	B	08/03/2021	UK/51/2021/0005
Abellio ScotRail	334	334038	A	21/04/2021	UK/51/2021/0005
Abellio ScotRail	334	334038	B	21/04/2021	UK/51/2021/0005
Abellio ScotRail	380	380001	A	29/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380001	B	29/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380002	A	06/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380002	B	06/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380003	A	15/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380003	B	22/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380004	A	17/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380004	B	16/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380005	A	23/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380005	B	23/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380006	A	14/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380006	B	14/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380008	A	02/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380008	B	02/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380010	A	05/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380010	B	05/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380012	A	20/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380012	B	20/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380013	A	20/04/2021	UK/51/2021/0025

Abellio ScotRail	380	380013	B	20/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380015	A	16/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380015	B	16/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380017	A	14/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380017	B	14/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380018	A	12/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380018	B	12/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380020	A	01/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380020	B	01/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380021	A	21/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380021	B	21/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380022	A	14/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380022	B	14/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380101	A	06/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380101	B	06/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380102	A	31/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380102	B	31/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380103	A	09/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380103	B	09/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380104	A	31/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380104	B	31/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380105	A	05/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380105	B	05/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380106	A	30/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380106	B	30/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380107	A	09/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380107	B	09/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380108	A	30/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380108	B	30/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380109	A	23/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380109	B	23/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380110	A	27/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380110	B	27/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380111	A	31/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380111	B	31/03/2021	UK/51/2021/0025
Abellio ScotRail	380	380112	A	08/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380112	B	08/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380113	A	05/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380113	B	05/04/2021	UK/51/2021/0025

Abellio ScotRail	380	380114	A	08/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380114	B	08/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380115	A	06/04/2021	UK/51/2021/0025
Abellio ScotRail	380	380115	B	06/04/2021	UK/51/2021/0025
Abellio ScotRail	43	43179	A	25/03/2021	UK/51/2020/0056
AC Locomotive Group	86	86101	A	28/04/2021	UK/51/2020/0003
AC Locomotive Group	87	87002	A	30/04/2021	UK/51/2021/0026
Babcock	073	073914	A	13/04/2021	UK/51/2020/0018
Babcock	073	073914	B	13/04/2021	UK/51/2020/0018
Babcock	073	073940	A	23/04/2021	UK/51/2020/0018
Babcock	073	073940	B	23/04/2021	UK/51/2020/0018
Babcock	077	077002	A	13/04/2021	UK/51/2020/0019
Babcock	077	077002	B	13/04/2021	UK/51/2020/0019
Babcock	077	077908	A	12/04/2021	UK/51/2020/0019
Babcock	077	077908	B	12/04/2021	UK/51/2020/0019
c2c	357	357001	A	07/04/2021	UK/51/2021/0006
c2c	357	357001	B	07/04/2021	UK/51/2021/0006
c2c	357	357004	A	21/04/2021	UK/51/2021/0006
c2c	357	357004	B	22/04/2021	UK/51/2021/0006
c2c	357	357012	A	01/04/2021	UK/51/2021/0006
c2c	357	357012	B	08/04/2021	UK/51/2021/0006
c2c	357	357040	A	29/04/2021	UK/51/2021/0006
c2c	357	357040	B	29/04/2021	UK/51/2021/0006
c2c	357	357204	A	26/04/2021	UK/51/2021/0006
c2c	357	357204	B	26/04/2021	UK/51/2021/0006
c2c	357	357320	A	09/04/2021	UK/51/2021/0006
c2c	357	357320	B	09/04/2021	UK/51/2021/0006
Class 20 Preservation Society	20	20189	A	16/03/2021	UK/51/2021/0027
Class 20 Preservation Society	20	20205	A	16/03/2021	UK/51/2021/0027
Colas Rail	073	073931	A	09/03/2021	UK/51/2020/0018
Colas Rail	073	073931	B	09/03/2021	UK/51/2020/0018
Colas Rail	073	073942	A	10/03/2021	UK/51/2020/0018
Colas Rail	073	073942	B	10/03/2021	UK/51/2020/0018
Colas Rail	37	37240	A	30/03/2021	UK/51/2020/0015
Colas Rail	37	37612	A	31/03/2021	UK/51/2020/0015
Colas Rail	56	56078	A	30/03/2021	UK/51/2020/0063
Colas Rail	66	66847	A	11/03/2021	UK/51/2020/0001
Colas Rail	66	66848	A	01/04/2021	UK/51/2020/0001

Colas Rail	66	66849	A	16/03/2021	UK/51/2020/0001
Colas Rail	66	66850	A	18/03/2021	UK/51/2020/0001
Colas Rail	70	70806	A	17/03/2021	UK/51/2020/0002
Colas Rail	70	70807	A	18/03/2021	UK/51/2020/0002
Colas Rail	70	70811	A	08/04/2021	UK/51/2020/0002
Colas Rail	70	70812	A	21/04/2021	UK/51/2020/0002
Colas Rail	70	70813	A	15/04/2021	UK/51/2020/0002
Cross Country	170	170107	A	27/04/2021	UK/51/2020/0051
Cross Country	170	170107	B	27/04/2021	UK/51/2020/0051
Cross Country	220	220002	A	19/04/2021	UK/51/2020/0061
Cross Country	220	220002	B	19/04/2021	UK/51/2020/0061
Cross Country	220	220003	A	22/03/2021	UK/51/2020/0061
Cross Country	220	220003	B	22/03/2021	UK/51/2020/0061
Cross Country	220	220005	A	06/04/2021	UK/51/2020/0061
Cross Country	220	220005	B	06/04/2021	UK/51/2020/0061
Cross Country	220	220006	A	30/04/2021	UK/51/2020/0061
Cross Country	220	220006	B	30/04/2021	UK/51/2020/0061
Cross Country	220	220012	A	08/03/2021	UK/51/2020/0061
Cross Country	220	220012	B	08/03/2021	UK/51/2020/0061
Cross Country	220	220019	A	24/03/2021	UK/51/2020/0061
Cross Country	220	220019	B	24/03/2021	UK/51/2020/0061
Cross Country	220	220025	A	08/04/2021	UK/51/2020/0061
Cross Country	220	220025	B	08/04/2021	UK/51/2020/0061
Cross Country	220	220026	A	06/04/2021	UK/51/2020/0061
Cross Country	220	220026	B	06/04/2021	UK/51/2020/0061
Cross Country	220	220027	A	30/03/2021	UK/51/2020/0061
Cross Country	220	220027	B	30/03/2021	UK/51/2020/0061
Cross Country	220	220033	A	27/04/2021	UK/51/2020/0061
Cross Country	220	220033	B	27/04/2021	UK/51/2020/0061
Cross Country	221	221122	A	09/04/2021	UK/51/2020/0062
Cross Country	221	221122	B	09/04/2021	UK/51/2020/0062
Cross Country	221	221135	A	29/04/2021	UK/51/2020/0062
Cross Country	221	221135	B	29/04/2021	UK/51/2020/0062
Cross Country	221	221137	A	16/03/2021	UK/51/2020/0062
Cross Country	221	221137	B	16/03/2021	UK/51/2020/0062
Cross Country	221	221141	A	16/04/2021	UK/51/2020/0062
Cross Country	221	221141	B	16/04/2021	UK/51/2020/0062
D.A.T.S.	43	43050	A	18/03/2021	UK/51/2020/0056
DB Cargo	325	325009	A	28/04/2021	UK/51/2021/0028

DB Cargo	325	325009	B	29/04/2021	UK/51/2021/0028
DB Cargo	66	66039	A	29/04/2021	UK/51/2020/0001
DB Cargo	67	67021	A	28/04/2021	UK/51/2021/0029
DB Cargo	67	67024	A	28/04/2021	UK/51/2021/0029
DB Cargo	67	67025	A	27/04/2021	UK/51/2021/0029
DB Cargo	67	67028	A	29/04/2021	UK/51/2021/0029
DB Cargo	90	90020	A	30/04/2021	UK/51/2020/0004
DB Cargo	90	90034	A	28/04/2021	UK/51/2020/0004
East Midlands Railway	156	156401	A	12/03/2021	UK/51/2021/0002
East Midlands Railway	156	156401	B	12/03/2021	UK/51/2021/0002
East Midlands Railway	156	156414	A	23/04/2021	UK/51/2021/0002
East Midlands Railway	156	156414	B	23/04/2021	UK/51/2021/0002
East Midlands Railway	156	156470	A	14/04/2021	UK/51/2021/0002
East Midlands Railway	156	156470	B	22/04/2021	UK/51/2021/0002
East Midlands Railway	156	156907	A	30/04/2021	UK/51/2021/0002
East Midlands Railway	156	156907	B	30/04/2021	UK/51/2021/0002
East Midlands Railway	156	156916	A	17/04/2021	UK/51/2021/0002
East Midlands Railway	156	156916	B	17/04/2021	UK/51/2021/0002
East Midlands Railway	156	156919	A	17/04/2021	UK/51/2021/0002
East Midlands Railway	156	156919	B	17/04/2021	UK/51/2021/0002
East Midlands Railway	158	158770	A	01/04/2021	UK/51/2020/0013
East Midlands Railway	158	158770	B	01/04/2021	UK/51/2020/0013
East Midlands Railway	158	158774	A	16/03/2021	UK/51/2020/0013
East Midlands Railway	158	158774	B	16/03/2021	UK/51/2020/0013
East Midlands Railway	158	158780	A	22/03/2021	UK/51/2020/0013
East Midlands Railway	158	158780	B	22/03/2021	UK/51/2020/0013
East Midlands Railway	158	158783	A	22/04/2021	UK/51/2020/0013
East Midlands Railway	158	158783	B	22/04/2021	UK/51/2020/0013
East Midlands Railway	158	158806	A	02/04/2021	UK/51/2020/0013
East Midlands Railway	158	158806	B	02/04/2021	UK/51/2020/0013
East Midlands Railway	158	158810	A	06/04/2021	UK/51/2020/0013
East Midlands Railway	158	158810	B	06/04/2021	UK/51/2020/0013
East Midlands Railway	158	158812	A	10/03/2021	UK/51/2020/0013
East Midlands Railway	158	158812	B	10/03/2021	UK/51/2020/0013
East Midlands Railway	158	158813	A	12/03/2021	UK/51/2020/0013
East Midlands Railway	158	158813	B	24/03/2021	UK/51/2020/0013
East Midlands Railway	158	158847	A	04/04/2021	UK/51/2020/0013
East Midlands Railway	158	158847	B	04/04/2021	UK/51/2020/0013
East Midlands Railway	158	158854	A	25/03/2021	UK/51/2020/0013

East Midlands Railway	158	158854	B	25/03/2021	UK/51/2020/0013
East Midlands Railway	158	158858	A	15/03/2021	UK/51/2020/0013
East Midlands Railway	158	158858	B	15/03/2021	UK/51/2020/0013
East Midlands Railway	158	158864	A	12/03/2021	UK/51/2020/0013
East Midlands Railway	158	158864	B	12/03/2021	UK/51/2020/0013
East Midlands Railway	170	170420	A	17/04/2021	UK/51/2020/0051
East Midlands Railway	170	170530	A	16/04/2021	UK/51/2020/0051
East Midlands Railway	170	170530	B	16/04/2021	UK/51/2020/0051
East Midlands Railway	170	170531	A	29/04/2021	UK/51/2020/0051
East Midlands Railway	170	170531	B	29/04/2021	UK/51/2020/0051
East Midlands Railway	180	180109	A	21/04/2021	UK/51/2021/0030
East Midlands Railway	180	180109	B	21/04/2021	UK/51/2021/0030
East Midlands Railway	222	222003	A	29/04/2021	UK/51/2021/0031
East Midlands Railway	222	222003	B	29/04/2021	UK/51/2021/0031
East Midlands Railway	222	222006	A	11/04/2021	UK/51/2021/0031
East Midlands Railway	222	222006	B	11/04/2021	UK/51/2021/0031
East Midlands Railway	222	222009	A	20/04/2021	UK/51/2021/0031
East Midlands Railway	222	222009	B	20/04/2021	UK/51/2021/0031
East Midlands Railway	222	222013	A	09/04/2021	UK/51/2021/0031
East Midlands Railway	222	222013	B	09/04/2021	UK/51/2021/0031
East Midlands Railway	222	222017	A	28/04/2021	UK/51/2021/0031
East Midlands Railway	222	222017	B	28/04/2021	UK/51/2021/0031
East Midlands Railway	222	222020	A	16/04/2021	UK/51/2021/0031
East Midlands Railway	222	222020	B	16/04/2021	UK/51/2021/0031
East Midlands Railway	222	222021	A	17/04/2021	UK/51/2021/0031
East Midlands Railway	222	222021	B	17/04/2021	UK/51/2021/0031
First Hull Trains	802	802303	A	22/04/2021	UK/51/2021/0007
First Hull Trains	802	802303	B	23/04/2021	UK/51/2021/0007
First Hull Trains	802	802304	A	09/04/2021	UK/51/2021/0007
First Hull Trains	802	802304	B	09/04/2021	UK/51/2021/0007
GB Railfreight	47	47749	A	16/03/2021	UK/51/2020/0034
GB Railfreight	66	66725	A	10/04/2021	UK/51/2020/0001
Govia Thameslink Railway	717	717001	A	17/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717001	B	17/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717005	A	19/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717005	B	19/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717006	A	23/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717006	B	23/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717008	A	23/03/2021	UK/51/2021/0023

Govia Thameslink Railway	717	717008	B	23/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717010	A	31/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717010	B	28/04/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717011	A	22/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717011	B	22/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717012	A	04/04/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717012	B	04/04/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717014	A	03/04/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717014	B	03/04/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717015	A	24/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717015	B	24/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717016	A	05/04/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717016	B	05/04/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717017	A	22/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717017	B	22/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717019	A	28/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717019	B	28/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717021	A	22/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717021	B	22/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717022	A	15/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717022	B	15/03/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717023	A	03/04/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717023	B	03/04/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717024	A	02/04/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717024	B	02/04/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717025	A	02/04/2021	UK/51/2021/0023
Govia Thameslink Railway	717	717025	B	02/04/2021	UK/51/2021/0023
Great Western Railway	150	150202	A	10/03/2021	UK/51/2021/0009
Great Western Railway	150	150207	A	21/03/2021	UK/51/2021/0009
Great Western Railway	150	150207	B	21/03/2021	UK/51/2021/0009
Great Western Railway	150	150219	A	23/03/2021	UK/51/2021/0009
Great Western Railway	150	150219	B	23/03/2021	UK/51/2021/0009
Great Western Railway	150	150221	A	22/03/2021	UK/51/2021/0009
Great Western Railway	150	150221	B	22/03/2021	UK/51/2021/0009
Great Western Railway	150	150233	A	16/04/2021	UK/51/2021/0009
Great Western Railway	150	150233	B	01/04/2021	UK/51/2021/0009
Great Western Railway	150	150234	A	01/04/2021	UK/51/2021/0009
Great Western Railway	150	150234	B	01/04/2021	UK/51/2021/0009
Great Western Railway	150	150239	A	27/03/2021	UK/51/2021/0009

Great Western Railway	150	150239	B	27/03/2021	UK/51/2021/0009
Great Western Railway	150	150243	A	09/04/2021	UK/51/2021/0009
Great Western Railway	150	150243	B	02/04/2021	UK/51/2021/0009
Great Western Railway	150	150247	A	11/03/2021	UK/51/2021/0009
Great Western Railway	150	150247	B	11/03/2021	UK/51/2021/0009
Great Western Railway	150	150249	A	11/03/2021	UK/51/2021/0009
Great Western Railway	150	150249	B	11/03/2021	UK/51/2021/0009
Great Western Railway	150	150261	A	07/04/2021	UK/51/2021/0009
Great Western Railway	150	150261	B	07/04/2021	UK/51/2021/0009
Great Western Railway	150	150265	A	31/03/2021	UK/51/2021/0009
Great Western Railway	150	150265	B	31/03/2021	UK/51/2021/0009
Great Western Railway	158	158763	A	21/04/2021	UK/51/2020/0013
Great Western Railway	158	158763	B	21/04/2021	UK/51/2020/0013
Great Western Railway	158	158766	A	13/04/2021	UK/51/2020/0013
Great Western Railway	158	158766	B	13/04/2021	UK/51/2020/0013
Great Western Railway	165	165103	A	08/04/2021	UK/51/2020/0042
Great Western Railway	165	165103	B	08/04/2021	UK/51/2020/0042
Great Western Railway	165	165113	A	01/04/2021	UK/51/2020/0042
Great Western Railway	165	165113	B	01/04/2021	UK/51/2020/0042
Great Western Railway	165	165114	A	28/04/2021	UK/51/2020/0042
Great Western Railway	165	165114	B	28/04/2021	UK/51/2020/0042
Great Western Railway	165	165116	A	27/04/2021	UK/51/2020/0042
Great Western Railway	165	165116	B	27/04/2021	UK/51/2020/0042
Great Western Railway	165	165117	A	14/04/2021	UK/51/2020/0042
Great Western Railway	165	165117	B	14/04/2021	UK/51/2020/0042
Great Western Railway	165	165120	A	19/03/2021	UK/51/2020/0042
Great Western Railway	165	165120	B	19/03/2021	UK/51/2020/0042
Great Western Railway	165	165122	A	30/04/2021	UK/51/2020/0042
Great Western Railway	165	165122	B	30/04/2021	UK/51/2020/0042
Great Western Railway	165	165124	A	12/04/2021	UK/51/2020/0042
Great Western Railway	165	165124	B	12/04/2021	UK/51/2020/0042
Great Western Railway	165	165127	A	15/04/2021	UK/51/2020/0042
Great Western Railway	165	165127	B	15/04/2021	UK/51/2020/0042
Great Western Railway	166	166204	A	01/04/2021	UK/51/2020/0066
Great Western Railway	166	166204	B	01/04/2021	UK/51/2020/0066
Great Western Railway	166	166211	A	08/03/2021	UK/51/2020/0066
Great Western Railway	387	387130	A	17/04/2021	UK/51/2020/0009
Great Western Railway	387	387130	B	17/04/2021	UK/51/2020/0009
Great Western Railway	387	387133	A	18/04/2021	UK/51/2020/0009

Great Western Railway	387	387133	B	17/04/2021	UK/51/2020/0009
Great Western Railway	387	387135	A	09/03/2021	UK/51/2020/0009
Great Western Railway	387	387135	B	09/03/2021	UK/51/2020/0009
Great Western Railway	387	387138	A	05/04/2021	UK/51/2020/0009
Great Western Railway	387	387138	B	05/04/2021	UK/51/2020/0009
Great Western Railway	387	387142	A	09/03/2021	UK/51/2020/0009
Great Western Railway	387	387142	B	09/03/2021	UK/51/2020/0009
Great Western Railway	387	387143	A	19/03/2021	UK/51/2020/0009
Great Western Railway	387	387143	B	19/03/2021	UK/51/2020/0009
Great Western Railway	387	387148	A	28/03/2021	UK/51/2020/0009
Great Western Railway	387	387148	B	28/03/2021	UK/51/2020/0009
Great Western Railway	387	387152	A	10/04/2021	UK/51/2020/0009
Great Western Railway	387	387152	B	10/04/2021	UK/51/2020/0009
Great Western Railway	387	387153	A	18/03/2021	UK/51/2020/0009
Great Western Railway	387	387153	B	11/03/2021	UK/51/2020/0009
Great Western Railway	387	387161	A	16/04/2021	UK/51/2020/0009
Great Western Railway	387	387161	B	16/04/2021	UK/51/2020/0009
Great Western Railway	387	387170	A	10/03/2021	UK/51/2020/0009
Great Western Railway	387	387170	B	10/03/2021	UK/51/2020/0009
Great Western Railway	387	387173	A	02/04/2021	UK/51/2020/0009
Great Western Railway	387	387173	B	11/03/2021	UK/51/2020/0009
Great Western Railway	769	769943	A	15/04/2021	UK/51/2021/0010
Great Western Railway	769	769943	B	15/04/2021	UK/51/2021/0010
Greater Anglia	317	317339	A	13/03/2021	UK/51/2020/0067
Greater Anglia	317	317339	B	26/03/2021	UK/51/2020/0067
Greater Anglia	321	321320	A	24/03/2021	UK/51/2020/0068
Greater Anglia	321	321320	B	24/03/2021	UK/51/2020/0068
Greater Anglia	321	321322	B	30/03/2021	UK/51/2020/0068
Greater Anglia	321	321326	A	17/03/2021	UK/51/2020/0068
Greater Anglia	321	321326	B	17/03/2021	UK/51/2020/0068
Greater Anglia	322	322481	A	18/03/2021	UK/51/2021/0011
Greater Anglia	322	322481	B	18/03/2021	UK/51/2021/0011
Greater Anglia	322	322482	A	29/03/2021	UK/51/2021/0011
Greater Anglia	322	322482	B	29/03/2021	UK/51/2021/0011
Greater Anglia	379	379003	A	28/04/2021	UK/51/2021/0032
Greater Anglia	379	379003	B	28/04/2021	UK/51/2021/0032
Greater Anglia	379	379007	A	30/04/2021	UK/51/2021/0032
Greater Anglia	379	379007	B	30/04/2021	UK/51/2021/0032
Greater Anglia	379	379009	A	29/04/2021	UK/51/2021/0032

Greater Anglia	379	379009	B	29/04/2021	UK/51/2021/0032
Greater Anglia	379	379013	A	21/04/2021	UK/51/2021/0032
Greater Anglia	379	379013	B	21/04/2021	UK/51/2021/0032
Greater Anglia	379	379014	A	27/04/2021	UK/51/2021/0032
Greater Anglia	379	379014	B	27/04/2021	UK/51/2021/0032
Greater Anglia	379	379016	A	26/04/2021	UK/51/2021/0032
Greater Anglia	379	379016	B	26/04/2021	UK/51/2021/0032
Greater Anglia	379	379017	A	15/04/2021	UK/51/2021/0032
Greater Anglia	379	379017	B	15/04/2021	UK/51/2021/0032
Greater Anglia	379	379018	A	21/04/2021	UK/51/2021/0032
Greater Anglia	379	379018	B	21/04/2021	UK/51/2021/0032
Greater Anglia	379	379020	A	23/04/2021	UK/51/2021/0032
Greater Anglia	379	379020	B	23/04/2021	UK/51/2021/0032
Greater Anglia	379	379022	A	18/04/2021	UK/51/2021/0032
Greater Anglia	379	379022	B	19/04/2021	UK/51/2021/0032
Greater Anglia	379	379024	A	16/04/2021	UK/51/2021/0032
Greater Anglia	379	379024	B	16/04/2021	UK/51/2021/0032
Greater Anglia	379	379026	A	14/04/2021	UK/51/2021/0032
Greater Anglia	379	379026	B	14/04/2021	UK/51/2021/0032
HS1	097	097001	A	24/03/2021	UK/51/2021/0016
HS1	097	097011	A	25/03/2021	UK/51/2021/0016
HS1	097	097012	A	25/03/2021	UK/51/2021/0016
HS1	097	097013	A	25/03/2021	UK/51/2021/0016
HS1	097	097014	A	25/03/2021	UK/51/2021/0016
LNER	800	800105	A	19/04/2021	UK/51/2021/0013
LNER	800	800105	B	19/04/2021	UK/51/2021/0013
LNER	800	800106	A	19/03/2021	UK/51/2021/0013
LNER	800	800106	B	19/03/2021	UK/51/2021/0013
LNER	800	800107	A	01/04/2021	UK/51/2021/0013
LNER	800	800107	B	01/04/2021	UK/51/2021/0013
LNER	800	800113	A	22/03/2021	UK/51/2021/0013
LNER	800	800113	B	22/03/2021	UK/51/2021/0013
LNER	800	800203	A	28/04/2021	UK/51/2021/0013
LNER	800	800203	B	28/04/2021	UK/51/2021/0013
LNER	800	800205	A	12/03/2021	UK/51/2021/0013
LNER	800	800205	B	12/03/2021	UK/51/2021/0013
LNER	800	800207	A	21/04/2021	UK/51/2021/0013
LNER	800	800207	B	22/04/2021	UK/51/2021/0013
LNER	800	800210	A	26/03/2021	UK/51/2021/0013

LNER	800	800210	B	26/03/2021	UK/51/2021/0013
LNER	801	801104	A	23/03/2021	UK/51/2021/0014
LNER	801	801104	B	23/03/2021	UK/51/2021/0014
LNER	801	801112	A	18/03/2021	UK/51/2021/0014
LNER	801	801112	B	17/03/2021	UK/51/2021/0014
LNER	801	801204	A	06/04/2021	UK/51/2021/0014
LNER	801	801204	B	06/04/2021	UK/51/2021/0014
LNER	801	801214	A	01/04/2021	UK/51/2021/0014
LNER	801	801214	B	01/04/2021	UK/51/2021/0014
LNER	801	801215	A	18/03/2021	UK/51/2021/0014
LNER	801	801215	B	18/03/2021	UK/51/2021/0014
LNER	801	801220	A	29/04/2021	UK/51/2021/0014
LNER	801	801220	B	29/04/2021	UK/51/2021/0014
LNER	801	801222	A	08/03/2021	UK/51/2021/0014
LNER	801	801222	B	08/03/2021	UK/51/2021/0014
Locomotive Services	37	37521	A	27/04/2021	UK/51/2020/0015
Locomotive Services	37	37688	A	29/04/2021	UK/51/2020/0015
Locomotive Services	40	40013	A	28/04/2021	UK/51/2021/0033
Locomotive Services	47	47593	A	26/04/2021	UK/51/2020/0034
Locomotive Services	47	47712	A	27/04/2021	UK/51/2020/0034
Locomotive Services	47	47828	A	26/04/2021	UK/51/2020/0034
Locomotive Services	82	82139	A	29/04/2021	UK/51/2020/0044
Locomotive Services	90	90002	A	29/04/2021	UK/51/2020/0004
Network Rail	075	075014	A	15/03/2021	UK/51/2020/0016
Network Rail	075	075014	B	15/03/2021	UK/51/2020/0016
Network Rail	079	079261	A	07/04/2021	UK/51/2020/0070
Network Rail	079	079265	A	14/04/2021	UK/51/2020/0070
Network Rail	079	079271	A	07/04/2021	UK/51/2020/0070
Network Rail	079	079274	A	14/04/2021	UK/51/2020/0070
Network Rail	098	098001	A	19/04/2021	UK/51/2020/0022
Network Rail	098	098002	A	29/04/2021	UK/51/2020/0022
Network Rail	098	098003	A	26/04/2021	UK/51/2020/0022
Network Rail	098	098004	A	20/04/2021	UK/51/2020/0022
Network Rail	098	098005	A	20/04/2021	UK/51/2020/0022
Network Rail	098	098006	A	29/04/2021	UK/51/2020/0022
Network Rail	098	098007	A	19/04/2021	UK/51/2020/0022
Network Rail	098	098009	A	20/04/2021	UK/51/2020/0022
Network Rail	098	098010	A	20/04/2021	UK/51/2020/0022
Network Rail	098	098011	A	20/04/2021	UK/51/2020/0022

Network Rail	098	098012	A	26/04/2021	UK/51/2020/0022
Network Rail	098	098013	A	30/04/2021	UK/51/2020/0022
Network Rail	098	098014	A	26/04/2021	UK/51/2020/0022
Network Rail	43	43014	A	22/03/2021	UK/51/2020/0056
Network Rail	43	43062	A	09/04/2021	UK/51/2020/0056
Network Rail	97	97303	A	12/03/2021	UK/51/2021/0034
Network Rail	975	975025	A	09/04/2021	UK/51/2021/0035
Northern Trains Ltd	150	150001	A	29/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150001	B	29/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150002	A	22/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150002	B	22/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150103	A	07/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150103	B	07/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150104	A	30/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150104	B	30/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150105	A	16/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150105	B	16/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150107	A	10/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150107	B	10/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150109	A	24/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150109	B	24/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150113	A	09/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150113	B	09/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150114	A	11/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150114	B	11/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150118	A	24/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150118	B	24/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150121	A	09/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150121	B	09/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150122	A	02/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150122	B	02/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150129	A	08/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150129	B	08/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150130	A	10/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150130	B	10/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150132	A	12/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150132	B	12/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150134	A	21/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150134	B	21/04/2021	UK/51/2021/0009

Northern Trains Ltd	150	150136	A	26/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150136	B	26/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150137	A	15/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150137	B	15/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150144	A	17/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150144	B	17/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150145	A	20/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150145	B	20/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150147	A	09/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150147	B	11/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150148	A	29/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150148	B	29/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150201	A	10/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150201	B	10/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150204	A	10/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150204	B	10/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150205	A	29/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150205	B	29/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150206	A	22/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150206	B	22/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150210	A	27/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150210	B	27/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150214	A	09/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150214	B	09/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150228	A	22/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150228	B	22/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150268	A	12/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150268	B	12/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150271	A	22/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150271	B	22/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150274	A	27/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150274	B	27/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150275	A	03/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150275	B	03/04/2021	UK/51/2021/0009
Northern Trains Ltd	150	150276	A	26/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150276	B	26/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150277	A	17/03/2021	UK/51/2021/0009
Northern Trains Ltd	150	150277	B	17/03/2021	UK/51/2021/0009
Northern Trains Ltd	155	155343	A	19/03/2021	UK/51/2021/0018

Northern Trains Ltd	155	155343	B	19/03/2021	UK/51/2021/0018
Northern Trains Ltd	156	156423	A	12/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156423	B	12/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156426	A	11/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156426	B	11/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156428	A	28/04/2021	UK/51/2021/0002
Northern Trains Ltd	156	156428	B	28/04/2021	UK/51/2021/0002
Northern Trains Ltd	156	156447	A	27/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156447	B	27/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156448	A	16/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156448	B	16/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156454	A	30/04/2021	UK/51/2021/0002
Northern Trains Ltd	156	156454	B	30/04/2021	UK/51/2021/0002
Northern Trains Ltd	156	156455	A	30/04/2021	UK/51/2021/0002
Northern Trains Ltd	156	156455	B	30/04/2021	UK/51/2021/0002
Northern Trains Ltd	156	156463	A	10/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156463	B	10/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156465	A	20/04/2021	UK/51/2021/0002
Northern Trains Ltd	156	156465	B	20/04/2021	UK/51/2021/0002
Northern Trains Ltd	156	156468	A	16/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156468	B	16/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156471	A	30/04/2021	UK/51/2021/0002
Northern Trains Ltd	156	156471	B	30/04/2021	UK/51/2021/0002
Northern Trains Ltd	156	156472	A	24/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156472	B	24/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156479	A	08/04/2021	UK/51/2021/0002
Northern Trains Ltd	156	156479	B	08/04/2021	UK/51/2021/0002
Northern Trains Ltd	156	156491	A	14/03/2021	UK/51/2021/0002
Northern Trains Ltd	156	156491	B	21/03/2021	UK/51/2021/0002
Northern Trains Ltd	158	158754	A	30/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158754	B	30/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158755	A	28/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158755	B	28/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158757	A	18/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158757	B	18/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158758	A	23/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158758	B	23/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158759	A	17/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158759	B	17/03/2021	UK/51/2020/0013

Northern Trains Ltd	158	158784	A	15/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158784	B	15/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158789	A	02/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158789	B	02/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158796	A	20/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158796	B	20/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158797	A	12/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158797	B	18/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158817	A	10/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158817	B	10/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158843	A	29/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158843	B	29/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158850	A	26/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158850	B	26/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158853	A	18/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158853	B	19/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158861	A	16/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158861	B	16/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158870	A	14/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158870	B	22/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158871	A	25/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158871	B	25/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158872	A	31/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158872	B	31/03/2021	UK/51/2020/0013
Northern Trains Ltd	158	158903	A	21/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158903	B	21/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158904	A	03/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158904	B	03/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158906	A	21/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158906	B	21/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158907	A	15/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158907	B	15/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158909	A	27/04/2021	UK/51/2020/0013
Northern Trains Ltd	158	158909	B	27/04/2021	UK/51/2020/0013
Northern Trains Ltd	170	170457	A	23/03/2021	UK/51/2020/0051
Northern Trains Ltd	170	170457	B	22/03/2021	UK/51/2020/0051
Northern Trains Ltd	170	170460	A	09/04/2021	UK/51/2020/0051
Northern Trains Ltd	170	170460	B	01/04/2021	UK/51/2020/0051
Northern Trains Ltd	170	170461	A	19/03/2021	UK/51/2020/0051

Northern Trains Ltd	170	170461	B	19/03/2021	UK/51/2020/0051
Northern Trains Ltd	195	195005	A	10/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195005	B	10/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195008	A	28/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195008	B	28/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195009	A	09/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195009	B	09/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195013	A	29/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195013	B	29/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195019	A	22/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195019	B	22/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195020	A	10/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195020	B	10/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195022	A	22/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195022	B	22/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195101	A	10/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195101	B	10/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195104	A	18/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195104	B	18/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195106	A	19/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195106	B	19/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195107	A	19/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195107	B	19/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195108	A	29/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195111	A	11/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195111	B	11/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195112	A	28/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195112	B	28/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195114	A	30/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195114	B	30/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195116	A	17/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195116	B	17/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195119	A	09/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195119	B	10/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195120	A	19/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195120	B	19/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195121	A	09/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195121	B	08/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195123	A	08/04/2021	UK/51/2021/0019

Northern Trains Ltd	195	195123	B	08/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195126	A	10/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195126	B	10/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195127	A	09/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195127	B	09/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195128	A	08/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195128	B	08/04/2021	UK/51/2021/0019
Northern Trains Ltd	195	195129	A	24/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195129	B	24/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195131	A	26/03/2021	UK/51/2021/0019
Northern Trains Ltd	195	195131	B	24/03/2021	UK/51/2021/0019
Northern Trains Ltd	319	319366	A	29/03/2021	UK/51/2020/0053
Northern Trains Ltd	319	319366	B	29/03/2021	UK/51/2020/0053
Northern Trains Ltd	319	319370	A	28/03/2021	UK/51/2020/0053
Northern Trains Ltd	319	319370	B	28/03/2021	UK/51/2020/0053
Northern Trains Ltd	319	319372	A	25/03/2021	UK/51/2020/0053
Northern Trains Ltd	319	319372	B	25/03/2021	UK/51/2020/0053
Northern Trains Ltd	323	323223	A	27/04/2021	UK/51/2020/0025
Northern Trains Ltd	323	323223	B	27/04/2021	UK/51/2020/0025
Northern Trains Ltd	323	323226	A	17/04/2021	UK/51/2020/0025
Northern Trains Ltd	323	323226	B	17/04/2021	UK/51/2020/0025
Northern Trains Ltd	323	323228	A	14/04/2021	UK/51/2020/0025
Northern Trains Ltd	323	323228	B	14/04/2021	UK/51/2020/0025
Northern Trains Ltd	323	323230	A	10/03/2021	UK/51/2020/0025
Northern Trains Ltd	323	323230	B	10/03/2021	UK/51/2020/0025
Northern Trains Ltd	323	323234	A	20/04/2021	UK/51/2020/0025
Northern Trains Ltd	323	323234	B	20/04/2021	UK/51/2020/0025
Northern Trains Ltd	323	323239	A	11/03/2021	UK/51/2020/0025
Northern Trains Ltd	323	323239	B	11/03/2021	UK/51/2020/0025
Northern Trains Ltd	331	331001	A	25/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331001	B	25/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331003	A	31/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331003	B	31/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331005	A	11/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331005	B	11/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331007	A	11/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331007	B	11/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331008	A	10/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331008	B	18/03/2021	UK/51/2021/0020

Northern Trains Ltd	331	331010	A	30/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331010	B	30/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331011	A	18/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331011	B	18/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331012	A	30/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331012	B	22/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331013	A	09/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331013	B	01/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331015	A	26/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331015	B	26/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331016	B	22/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331017	A	09/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331017	B	25/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331018	A	19/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331018	B	19/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331019	A	12/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331019	B	12/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331020	A	25/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331020	B	25/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331021	A	08/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331021	B	22/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331022	A	08/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331022	B	06/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331024	A	01/05/2021	UK/51/2021/0020
Northern Trains Ltd	331	331024	B	01/05/2021	UK/51/2021/0020
Northern Trains Ltd	331	331025	A	12/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331025	B	01/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331026	A	16/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331026	B	16/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331027	A	29/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331028	A	09/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331028	B	08/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331031	A	30/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331031	B	30/03/2021	UK/51/2021/0020
Northern Trains Ltd	331	331110	A	28/04/2021	UK/51/2021/0020
Northern Trains Ltd	331	331110	B	28/04/2021	UK/51/2021/0020
Northern Trains Ltd	333	333014	B	28/04/2021	UK/51/2021/0036
Northern Trains Ltd	769	769424	A	28/03/2021	UK/51/2021/0010
Northern Trains Ltd	769	769424	B	29/03/2021	UK/51/2021/0010

Northern Trains Ltd	769	769431	A	18/04/2021	UK/51/2021/0010
Northern Trains Ltd	769	769431	B	18/04/2021	UK/51/2021/0010
Northern Trains Ltd	769	769434	A	17/03/2021	UK/51/2021/0010
Northern Trains Ltd	769	769434	B	17/03/2021	UK/51/2021/0010
Northern Trains Ltd	769	769450	A	25/04/2021	UK/51/2021/0010
Northern Trains Ltd	769	769450	B	25/04/2021	UK/51/2021/0010
Northern Trains Ltd	769	769458	A	12/04/2021	UK/51/2021/0010
Northern Trains Ltd	769	769458	B	12/04/2021	UK/51/2021/0010
ROSCO Storage	43	43299	A	19/03/2021	UK/51/2020/0056
SB Rail	074	074002	A	22/04/2021	UK/51/2021/0037
SB Rail	074	074002	B	22/04/2021	UK/51/2021/0037
SB Rail	928	928001	A	22/04/2021	UK/51/2021/0038
SB Rail	928	928001	B	22/04/2021	UK/51/2021/0038
TransPennine Express	802	802201	A	24/03/2021	UK/51/2021/0007
TransPennine Express	802	802201	B	24/03/2021	UK/51/2021/0007
TransPennine Express	802	802202	A	27/03/2021	UK/51/2021/0007
TransPennine Express	802	802202	B	27/03/2021	UK/51/2021/0007
TransPennine Express	802	802203	A	23/03/2021	UK/51/2021/0007
TransPennine Express	802	802203	B	24/03/2021	UK/51/2021/0007
TransPennine Express	802	802204	A	18/03/2021	UK/51/2021/0007
TransPennine Express	802	802204	B	18/03/2021	UK/51/2021/0007
TransPennine Express	802	802205	A	19/03/2021	UK/51/2021/0007
TransPennine Express	802	802205	B	19/03/2021	UK/51/2021/0007
TransPennine Express	802	802206	A	01/04/2021	UK/51/2021/0007
TransPennine Express	802	802206	B	01/04/2021	UK/51/2021/0007
TransPennine Express	802	802207	A	24/03/2021	UK/51/2021/0007
TransPennine Express	802	802207	B	24/03/2021	UK/51/2021/0007
TransPennine Express	802	802208	A	09/03/2021	UK/51/2021/0007
TransPennine Express	802	802208	B	09/03/2021	UK/51/2021/0007
TransPennine Express	802	802209	A	12/03/2021	UK/51/2021/0007
TransPennine Express	802	802209	B	08/04/2021	UK/51/2021/0007
TransPennine Express	802	802210	A	31/03/2021	UK/51/2021/0007
TransPennine Express	802	802210	B	31/03/2021	UK/51/2021/0007
TransPennine Express	802	802211	A	16/03/2021	UK/51/2021/0007
TransPennine Express	802	802211	B	16/03/2021	UK/51/2021/0007
TransPennine Express	802	802212	A	19/03/2021	UK/51/2021/0007
TransPennine Express	802	802212	B	19/03/2021	UK/51/2021/0007
TransPennine Express	802	802213	A	23/03/2021	UK/51/2021/0007
TransPennine Express	802	802213	B	23/03/2021	UK/51/2021/0007

TransPennine Express	802	802214	A	09/03/2021	UK/51/2021/0007
TransPennine Express	802	802214	B	09/03/2021	UK/51/2021/0007
TransPennine Express	802	802215	A	24/03/2021	UK/51/2021/0007
TransPennine Express	802	802215	B	24/03/2021	UK/51/2021/0007
TransPennine Express	802	802216	A	25/03/2021	UK/51/2021/0007
TransPennine Express	802	802216	B	25/03/2021	UK/51/2021/0007
TransPennine Express	802	802217	A	25/03/2021	UK/51/2021/0007
TransPennine Express	802	802217	B	25/03/2021	UK/51/2021/0007
TransPennine Express	802	802218	A	26/03/2021	UK/51/2021/0007
TransPennine Express	802	802218	B	26/03/2021	UK/51/2021/0007
TransPennine Express	802	802219	A	25/03/2021	UK/51/2021/0007
TransPennine Express	802	802219	B	25/03/2021	UK/51/2021/0007
West Midlands Trains	170	170503	A	15/04/2021	UK/51/2020/0051
West Midlands Trains	170	170503	B	15/04/2021	UK/51/2020/0051
West Midlands Trains	170	170505	A	22/04/2021	UK/51/2020/0051
West Midlands Trains	170	170505	B	22/04/2021	UK/51/2020/0051
West Midlands Trains	170	170507	A	09/04/2021	UK/51/2020/0051
West Midlands Trains	170	170507	B	09/04/2021	UK/51/2020/0051
West Midlands Trains	170	170510	A	16/04/2021	UK/51/2020/0051
West Midlands Trains	170	170510	B	16/04/2021	UK/51/2020/0051
West Midlands Trains	170	170513	A	22/04/2021	UK/51/2020/0051
West Midlands Trains	170	170513	B	21/04/2021	UK/51/2020/0051
West Midlands Trains	170	170632	A	14/04/2021	UK/51/2020/0051
West Midlands Trains	170	170632	B	14/04/2021	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

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Ian Prosser Director, Railway Safety, ORR.

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Ian Maxwell Head of Train Control Systems, ORR.