

[Redacted]
Stadler Bussnang AG
Ernst-Stadler-Strasse
4 CH-9565 Bussnang
Switzerland

Your Ref

Our Ref

Case Ref PRM-IOP-0253
EIN UK/51/2019/000x

10th July 2019

Contact: Paul Fray

HM Inspector of Railways, Senior Engineer
One Kemble Street
London
WC2B 4AN

Dear [redacted],

**THE RAILWAYS (INTEROPERABILITY) REGULATIONS 2011, AS AMENDED
AUTHORISATION OF STADLER CLASS 745/0 AND 745/1 ELECTRICAL
MULTIPLE UNITS, FITTED WITH AWS AND TPWS (STAND ALONE MODE
ONLY), GSM-R VOICE ONLY, MAXIMUM SPEED OF 100MPH, PASSENGER
OPERATION ONLY.**

UNIT AND VEHICLE NUMBERS AS PER APPENDIX 1

I refer to your application for authorisation, received on the 24th June 2019. I also refer to your CSM-REA Article 16 Declaration of Control of Risk, dated 20th June 2019, and Safety Assessment Report, reference RTUKR-T38495-013-Issue 2 dated 19th June 2019.

Following review of your application, I can confirm that ORR grants a first authorisation under regulation 4(1)(a) of the Railways (Interoperability) Regulations 2011, as amended. This authorisation is for the placing in service of the Stadler Class 745/0 and Class 745/1 EMU vehicles (Complete number range as per Appendix 1).

I also refer to the EC Declaration of Verification, reference CH/0000101468464/2019/000402, dated 24th June 2019 where I note the references to the Notified Body TSI Certificates and Designated Body NNTR Certificates

The conditions and constraints of use on the structural subsystem are those contained on the EC Declaration of Verification reference CH/0000101468464/2019/000402, dated 24th June 2019 and contained in your technical file, reference RTUKR-T38495-008 issue 7 , dated 7th June 2019.

The conditions which must be met below are:

1. The operator, Abellio East Anglia Limited shall not operate the Class 745/0 and 745/1 in passenger operation until an S-stage Summary of Compatibility (SOC) is in place to demonstrate validation of the swept envelope as part of the RIS-8270-RST Compatibility Process.
2. Low-speed validation of lateral forces in accordance with GMRT 2141 must be provided and verified prior to the units are put into use for passenger service.
3. The operator, Abellio East Anglia Limited shall ensure that their safety management system is suitable and sufficient to ensure access and egress of passengers in normal operational and degraded modes and must be provided and verified prior to the units are put into use for passenger service
4. Document AL_2356506_ Post Authorisation Management of Constraints shall be updated accordingly.

The rolling stock subsystem(s) 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 technical file, keeping it up to date and making it available to the ORR in accordance with Regulations 18 and 19.

If you are not the owner of the authorised subsystem you shall within 60 days, in accordance with Regulation 19(3), transfer the technical file, certificate of verification and verification declaration 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 technical file, certificate of verification and verification declaration 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.

The person who applied for the authorisation to place in service will be issued with a determination of type in accordance with Commission Implementing Decision 2011/665/EC. The person who applied for the authorisation to place in service will receive the type authorisation after providing the data to the Registration Entity in accordance with Annex II of Commission Implementing Decision 2011/665/EC.

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(s).

This decision letter will be published on ORR website.

Yours sincerely



Steve Fletcher
Deputy Director, Engineering & Asset Management

Cc

Ian Prosser	Director, Railway Safety Directorate ORR
[Redacted]	Head of Interoperability, DfT
[Redacted]	Head of Vehicle Compatibility, Network Rail
National Vehicle Register	nvr@networkrail.co.uk
Karen Barnes	HM Inspector of Railways, ORR
Paul Hooper	Interoperability Manager ORR

Appendix 1

Class 745/0 Coach Numbers

312001	322001	346001	344001	342001	302001	301001	341001	343001	332001	426001	413001
312002	322002	346002	344002	342002	302002	301002	341002	343002	332002	426002	413002
312003	322003	346003	344003	342003	302003	301003	341003	343003	332003	426003	413003
312004	322004	346004	344004	342004	302004	301004	341004	343004	332004	426004	413004
312005	322005	346005	344005	342005	302005	301005	341005	343005	332005	426005	413005
312006	322006	346006	344006	342006	302006	301006	341006	343006	332006	426006	413006
312007	322007	346007	344007	342007	302007	301007	341007	343007	332007	426007	413007
312008	322008	346008	344008	342008	302008	301008	341008	343008	332008	426008	413008
312009	322009	346009	344009	342009	302009	301009	341009	343009	332009	426009	413009
312010	322010	346010	344010	342010	302010	301010	341010	343010	332010	426010	413010
94700312001-3	94700322001-1	94700346001-3	94700344001-5	94700342001-7	94700302001-5	94700301001-6	94700341001-8	94700343001-6	94700332001-9	94700426001-6	94700413001-1
94700312002-1	94700322002-9	94700346002-1	94700344002-3	94700342002-5	94700302002-3	94700301002-4	94700341002-6	94700343002-4	94700332002-7	94700426002-4	94700413002-9
94700312003-9	94700322003-7	94700346003-9	94700344003-1	94700342003-3	94700302003-1	94700301003-2	94700341003-4	94700343003-2	94700332003-5	94700426003-2	94700413003-7
94700312004-7	94700322004-5	94700346004-7	94700344004-9	94700342004-1	94700302004-9	94700301004-0	94700341004-2	94700343004-0	94700332004-3	94700426004-0	94700413004-5
94700312005-4	94700322005-2	94700346005-4	94700344005-6	94700342005-8	94700302005-6	94700301005-7	94700341005-9	94700343005-7	94700332005-0	94700426005-7	94700413005-2
94700312006-2	94700322006-0	94700346006-2	94700344006-4	94700342006-6	94700302006-4	94700301006-5	94700341006-7	94700343006-5	94700332006-8	94700426006-5	94700413006-0
94700312007-0	94700322007-8	94700346007-0	94700344007-2	94700342007-4	94700302007-2	94700301007-3	94700341007-5	94700343007-3	94700332007-6	94700426007-3	94700413007-8
94700312008-8	94700322008-6	94700346008-8	94700344008-0	94700342008-2	94700302008-0	94700301008-1	94700341008-3	94700343008-1	94700332008-4	94700426008-1	94700413008-6
94700312009-6	94700322009-4	94700346009-6	94700344009-8	94700342009-0	94700302009-8	94700301009-9	94700341009-1	94700343009-9	94700332009-2	94700426009-9	94700413009-4
94700312010-4	94700322010-2	94700346010-4	94700344010-6	94700342010-8	94700302010-6	94700301010-7	94700341010-9	94700343010-7	94700332010-0	94700426010-7	94700413010-2

Class 745/1 Coach Numbers

312101	322101	346101	344101	342101	302101	301101	341101	343101	332101	326101	313101
312102	322102	346102	344102	342102	302102	301102	341102	343102	332102	326102	313102
312103	322103	346103	344103	342103	302103	301103	341103	343103	332103	326103	313103
312104	322104	346104	344104	342104	302104	301104	341104	343104	332104	326104	313104
312105	322105	346105	344105	342105	302105	301105	341105	343105	332105	326105	313105
312106	322106	346106	344106	342106	302106	301106	341106	343106	332106	326106	313106
312107	322107	346107	344107	342107	302107	301107	341107	343107	332107	326107	313107
312108	322108	346108	344108	342108	302108	301108	341108	343108	332108	326108	313108
312109	322109	346109	344109	342109	302109	301109	341109	343109	332109	326109	313109
312110	322110	346110	344110	342110	302110	301110	341110	343110	332110	326110	313110
94700312101-1	94700322101-9	94700346101-1	94700344101-3	94700342101-5	94700302101-3	94700301101-4	94700341101-6	94700343101-4	94700332101-7	94700326101-5	94700313101-0
94700312102-9	94700322102-7	94700346102-9	94700344102-1	94700342102-3	94700302102-1	94700301102-2	94700341102-4	94700343102-2	94700332102-5	94700326102-3	94700313102-8
94700312103-7	94700322103-5	94700346103-7	94700344103-9	94700342103-1	94700302103-9	94700301103-0	94700341103-2	94700343103-0	94700332103-3	94700326103-1	94700313103-6
94700312104-5	94700322104-3	94700346104-5	94700344104-7	94700342104-9	94700302104-7	94700301104-8	94700341104-0	94700343104-8	94700332104-1	94700326104-9	94700313104-4
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94700312107-8	94700322107-6	94700346107-8	94700344107-0	94700342107-2	94700302107-0	94700301107-1	94700341107-3	94700343107-1	94700332107-4	94700326107-2	94700313107-7
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