Mr Patrick Shaddock
Program Manager
Network Rail Telecoms
Enterprise House,
167-169 Westbourne Terrace
London
W2 6JX

Your Ref: GSM-R V4.0 Cab Mobile

Our Ref: GSM-R V4.0 Cab Mobile

Case Ref PRM-IOP-0333

EIN Number: UK/51/2019/0017

Date: 30th October 2019

Contact: Stephen Williams
3rd Floor, Mallard House, Kings Pool,
1-2 Peasholme Green,
York.
YO1 7PX.

Dear Patrick,

THE RAILWAYS (INTEROPERABILITY) REGULATIONS 2011, AS AMENDED DETERMINATION OF TYPE FOR GSM-R CAB MOBILE SVR 400+ WITH NR4.0 SOFTWARE (BUILD 1127) WHICH INCORPORATE AN ETSI TS 102 933 V 2.1.1 COMPLIANT TRANSCEIVER

I refer to your application for Determination of Type, received on the 24th October 2019. Following review of your application, I can confirm that ORR grants a Determination of Type to regulation 8(2) of the Railways (Interoperability) Regulations 2011, as amended.

The Determination of Type Number is 11-095-0001-5-001and relates to:-

Replacing the current GB GSM-R Cab Mobile V3.nn with a V4.0 GSM-R Cab Mobile fitted with a Triorail or Funkwerk 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 Cab Mobile SVR 400+ With NR4.0 Software (Build 1127) which incorporate an ETSI TS 102 933 V 2.1.1 compliant transceiver with the following part numbers:
  - 668/1/03201/016 (Triorail transceiver with firmware 03.030B)
  - 668/1/03201/216 (Funkwerk transceiver with firmware 1.0.32)
  - 668/1/03251/016 (Triorail transceiver with firmware 03.030B)
  - 668/1/03251/216 (Funkwerk transceiver with firmware 1.0.32)

- 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

If the Safety Authority (ORR) considers it necessary as a result of changes to TSIs or notified national technical rules it may modify, suspend or withdraw a determination of type.
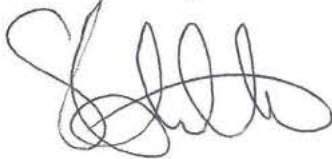
The restrictions and conditions of this Determination of Type are the same as the initial authorisation.

You should be aware that any future modifications to the authorised subsystem may constitute a further '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.

Yours sincerely

Steve Fletcher - ORR Deputy Director,Railway Planning and Performance.

Cc

Ian Jones,	Head of Interoperability, Safety and Standards DfT
Ian Prosser	Director, Railway Safety ORR
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