



CERTIFICATE OF ENGINEERING ACCEPTANCE

This certificate formally records that the following vehicle(s) conform to the appropriate requirements as set out in RIS-1530-PLT Issue 2.

NAME OF VEHICLE ACCEPTANCE BODY

Interfleet Technology Ltd

ACCREDITATION CODE

IF

Vehicle Class / Type

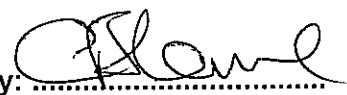
Road Rail Vehicle Land Rover 130 Defender - Type 9C

Vehicle Operator

Aquarius Railroad Technologies Ltd

Vehicle Owner

Aquarius Railroad Technologies Ltd

Authorised by: 

Bryan Lowe
Interfleet Technology Ltd

Issue Date

13 December, 2010

Expiry Date

1 April, 2015

(Where applicable due to a special limitation)



OFFICIAL STAMP

Vehicle Number(s)

99709_976021-4

Special Limitations

A RRV CONFIGURATION

1. The RRV is a Land Rover 130 Defender with Aries Rail Gear, registration number VX57 LRL. It is fitted with a trailer service brake working pressure 0 - 5.5 bar.
2. Fitted with frost scrubber for use on conductor-rail lines, see C2 and D3.

B ON /OFF TRACKING AND EMERGENCY RECOVERY.

1. Detailed in the Operations Manual Issue 1, 06/08/2009.
2. For on/off tracking, a site-specific work plan for one of the following conditions shall be used. The work plan shall be in compliance with Network Rail Specification NR/L2/RMVP/0207:-
 - > Maximum track cant 100mm and/or gradient 1:29, on an approved RRAP.
 - OR
 - > A risk assessed procedure that is specific to the on and off tracking point.
3. In recovery, speed must be limited to 5mph (8km/h).

C RRV GAUGE

1. Travelling Mode: The RRV is within W6a gauge and exemption for road wheels as RIS-1530-PLT. Cab doors can be out of gauge when open and account of this must be taken in the safe system of work.
2. Working Mode: The conductor rail frost scrubber is out of W6a gauge when deployed and account of this must be taken in the safe system of work.

D RRV LIMITATIONS OF USE

1. It shall only operate inside a possession.

Customer Copy

Certificate No: IF/0708/10

2. It shall NOT on/off-track if adjacent lines are open to traffic.
3. It shall NOT on/off-track, travel or work on live conductor-rail lines.
4. This vehicle is suitable for use under live OLE (on/off track, travel or work) when used in conjunction with a safe system of work (Method Statement) determined and authorised in accordance with the requirements of GE/RT8024.
5. Maximum track cant 200mm and/or 1 in 29 gradient.
6. It will not activate train operated points.
7. Permitted speed > Maximum - 20mph (32km/h); Points & Crossings - 5mph (8km/h); Reversing - 15mph (24km/h).
Raised check rails - 1mph (2km/h).
8. When reversing and the driver does not have an unrestricted view to the rear, the permitted speed shall be reduced with movements controlled from the rear compartment and/or ground staff.
9. For access/egress, the RRV shall only operate with the opening door to the cab adjacent to a cess or a line closed to all train movements, or the safe system of work takes account of adequate clearance to adjacent lines. Vehicle door locks to be used.
10. The vehicle payload of 1050kg shall NOT be exceeded and uniformly distributed, permitting up to 5 persons in the cab and 6 persons in the rear (80kg/person) and/or equipment in the rear.
Vehicle tare weight 2450kg.
11. It is permitted to tow or propel, single Aquarius Ultra Light 1 tonne trailer.

Referenced Certificates

This Certificate of Engineering Acceptance has been issued in accordance with GM/RT2000, on the basis of the following previous Certificates of Engineering Acceptance.

Engineering Acceptance

IF/0268/08

RGS Catalogue

The Mandatory Requirements and scope of work against which conformance has been confirmed:
Railway Group Standard Catalogue number GA/RM6501 Issue 5 December 2010

Vehicle Data

Route Availability No:	(Laden)	No Change	(Tare)	No Change
Maximum Speed (mph):	(Laden)	20	(Tare)	20
Applicable Gauge or Portfolio Reference :	W6a and gauge exceedance as permitted in RIS-1530-PLT			
Minimum Curve Radius:	80m			
Applicable Braking Curve(s):	Road/Rail Vehicles RIS-1530-PLT Clause 5.6.2.1			

Maintenance Plan Documentation

LandRover Defender 2.4D 110/130 Issue 4 20/03/08.

First Of Class

First of Class not known.

Scope of Work

Certification of Land Rover RRV. Chassis number SALLDKHS77A749000.
Originally assessed for compliance with RIS-1530-PLT, Issue 1.
Modification - addition of conductor rail frost scrubber.
Reference to up-issued maintenance plan.
Deviation NR/06/1530/008/NC against RIS-1530-PLT Issue 1, clause 6.2.4 for road/rail wheel guidance loads.
Expiry date conforms with the requirements of RIS-1530-PLT.