

Interfleet

Technology

Rail Safety & Standards Board

CERTIFICATE OF ENGINEERING ACCEPTANCE

This certificate formally records that the following vehicle(s) conform to the appropriate Mandatory Requirements as set out in Railway Group Standards.

NAME OF VEHICLE ACCEPTANCE BODY**Interfleet Technology Ltd****ACCREDITATION CODE****IF****Vehicle Class / Type**

Road Rail Vehicle Komatsu PW410

Vehicle Operator

Ready Power Engineering Ltd

Vehicle Owner

Ready Power Engineering Ltd

Authorised by: **Bryan Lowe**

Interfleet Technology Ltd

Issue Date

22 December, 2004

Expiry Date

None

(Where applicable due to a special limitation)

**OFFICIAL STAMP****Vehicle Number(s)**

Rexquote_1141

Special Limitations**A RRV ON & OFF TRACKING AND EMERGENCY RECOVERY**

1. Detailed in the Rexquote Manual.
A RAP or temporary crossing must be used, maximum track cant 50mm.
2. Alternatively to A1, a risk assessed documented procedure may be used that is specific to the possession.
3. In recovery, speed must be limited to 5mph to avoid damage to the RRV.

B RRV CONFIGURATION

1. Vehicle is rail-conversion of road multi-purpose excavator with mono boom and dipper.
2. It operates on-rail in high-mode only.
3. It may work with a range of attachments through the dipper link pins or quick hitch, see E.
4. Fitted with external emergency traction/brake control for use with Rexquote Personnel Transporter PT1.

C RRV GAUGE

1. When travelling, RRV is within W6 gauge and exception for road wheels as GM/RT1300.
2. When travelling, mirrors must be folded in.
3. When working, the counterweight, boom, dipper and attachments can be out of gauge, dependent on the Prolec Rated Capacity Indicator (RCI)/slew settings in use.

D RRV LIMITATIONS OF USE

1. It shall only operate inside possessions.
2. It shall NOT on/off track or work, if adjacent lines are open to traffic.
3. It shall NOT on/off-track, travel or work on live conductor-rail lines.

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4. It shall NOT on/off-track, or work under live OLE.
5. It may on/off-track at a level crossing or travel under live OLE in accordance with the Method Statement for the possession as determined and approved in accordance with the requirements of GE/RT8024, and provided the boom/dipper is in the travel position.
6. For access/egress, the RRV shall only operate with the door to the cab adjacent to a cess or a line closed to all train movements, or the Method Statement safe system of work to be adopted takes account of adequate safe clearances to adjacent lines.
7. Working Mode.
The RRV shall not work on track that exceeds any combination of:
 - . cant 150mm;
 - . twist 1/150 over the RRV wheelbase (22mm twist);
 - . gradient 1/30.
8. Travelling Mode.
The RRV may travel on track that does not exceed:
 - . cant 200mm;
 - . gradient 1/30.
9. Permitted speed -
 - Maximum - 20mph (32km/h);
 - Points & Crossings - 5mph (8km/h);
 - Towing/Propelling - 10mph (16km/h);
10. Limitation to ensure stability:
 - Prolec RCI shall be active when the RRV is in use.
 - RRV shall only be operated with quick hitch in position and/or load on boom.
 - Movement of boom towards backward stability limit shall be at moderate/low speed.
 - Prolec RCI shall be in operation when RRV is working, except as Limitation E1. Permitted to lift and carry through 360 degrees operation. See Duty Charts and LOLER Certificate.
11. It is permitted to tow and/or propel trailers with compatible parking brake and coupling system. Maximum un-braked towed/propelled weight is 10 tonnes. Hydraulic supply pressure for trailer park-brake release is 28bar.
12. When a Rexquote Personnel Transporter PT1 is connected to the RRV its use shall be in accordance with the applicable Rexquote Code of Practice and the Method Statement.

E RRV ATTACHMENTS

The RRV may work with attachments. Their use in modes E1 or E2 shall comply with the following, as applicable:

- . Where specified, and including all lifting accessories, the attachment shall have a current certificate of approval, test and/or thorough examination.
 - . The attachment shall only be used in accordance with the manufacturer's safety and operating instructions, and the Method Statement for the possession.
 - . Use of the attachment shall not involve exceeding the vehicle's rated capacity for lifting. Before switching OFF the RCI, the attachment and its contents (e.g. bucket full of ballast) shall be moved through the planned range of movements to confirm that the working mode is within the vehicle's lifting capacity.
 - . Except for the quick hitch, the attachment should not be connected to the vehicle during on or off tracking, unless safe to do so.
 - . The attachment shall be maintained in accordance with the manufacturer's and/or other approved instructions.
- E1. The Prolec RCI may be switched OFF, typically digging mode including:
- . General purpose earth moving buckets.
 - . Ballast profiling bucket.
 - . Earth moving clamshell grab.
 - . Flail cutting head.
- NOTE: Caution must be exercised with this type of attachment as its use may adversely affect the stability of the RRV when it is working.
- E2. The Prolec RCI shall be switched ON, lifting mode:
- . Lifting accessories (LOLER Regulations).
 - . An attachment that is mechanically fixed to and/or powered from the RRV.
- Any such attachment and its use shall only be with the approval of the infrastructure controller, see GM/RT1300 Issue 4 Clause C2.

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Referenced Certificates

This Certificate of Engineering Acceptance has been issued in accordance with GM/RT2000 Issue 2, on the basis of the following Certificates of Conformance and previous Certificates of Engineering Acceptance.

Supporting Certificates**Vehicle Design****Vehicle Construction****Vehicle Maintenance**

IF/MP/0713/04

Superseded Certificates**Engineering Acceptance**

IF/0773/02

Reasons for non inclusion of a Certificate of Conformance or a Certificate of Engineering Acceptance:-
Vehicle Design and Construction Certificates not applicable.

RGS Catalogue

The Mandatory Requirements and scope of work against which conformance has been confirmed:
Railway Group Standard Catalogue number GA/RM6501 Issue 5 October 2004

Vehicle Data

Route Availability No:	(Laden)	No Change	(Tare)	No Change
Maximum Speed (mph):	(Laden)	20	(Tare)	20
Applicable Gauge or Portfolio Reference :	W6 as GM/RT1300			
Minimum Curve Radius:	80m			
Applicable Braking Curve(s):	Road/Rail Vehicles GM/RT1300 Issue 4 Clause D12.2			

Mandatory Data for Inclusion in RSL

NONE

Scope of Work

Certification of Road-Rail Vehicle Serial No. 21D0004389.

RRV was originally assessed for compliance with GM/RT1300 Issue 2.

Modifications/refurbishment assessed for compliance with GM/RT1300 Issue 4 including:

- New Prolec Liftwatch 5 RCI with motion cut manifold.
- Rail marker lights on chassis with automatic direction control.
- Trailer towing connections with breakaway alert.
- External emergency traction/brake control, see B4.
- New maintenance manual.

For reasons of safety the Special Limitations on the superseded Engineering Acceptance certificate have been enhanced to accord with the requirements of GM/RT1300 Issue 4.

Authorised by: 

Certificate No: IF/2160/04

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