

# NETWORK SERVICE PLAN

## Addenda

The Addenda contains information relative to Field Application of the Rail Access Management System (RAMS), Train Running Documentation and qualifying instructions and details of all Locomotives and Rolling Stock Authorised to operate on the V/Line Rail Network.

**ONLY LOCOMOTIVE AND ROLLING STOCK CLASSES CONTAINED WITHIN THIS DOCUMENT ARE PERMITTED TO OPERATE ON THE V/LINE RAIL NETWORK.**

**APPROVAL OF ANY ADDITIONAL LOCOMOTIVES OR ROLLING STOCK MUST BE OBTAINED FROM THE OPERATIONS MANAGER, NETWORK SERVICE, and PRIOR TO OPERATION ON THE V/LINE RAIL NETWORK.**



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## OPERATING REQUIREMENTS

### RAIL ACCESS MANAGEMENT SYSTEM (R.A.M.S)

### FREIGHT MANAGEMENT SYSTEM (F.M.S)

The RAMS & FMS computer systems have been designed and constructed to assist all aspects of the rail operations, Billing and Business Functions.

The main source documents used by the train crew and other personnel associated with train preparation and the subsequent update RAMS are:

#### 1. Train Consist report

This computer generated train consist package includes:

- Vehicle details
- Container details
- Sequence of vehicles on the train beginning from the locomotive
- Total train mass/length
- Enroute working instructions
- Locomotive Instructions
- Dangerous Goods wagon/container identification

#### 2. Enroute attach/detach form

To be filled out in duplicate when shunting enroute and in possession of a computer generated consist report. Details of vehicles attached/detached are entered on the form and attached to the train consist report at the train destination and delivered to the OIC.

## TRAIN DOCUMENTATION

It is essential that details required in the FMS/RAMS system are entered in a timely manner to ensure that current information is available for planning purposes and that each departing train crew is in possession of a RAMS generated train consist report.

At properly manned and equipped originating locations, a RAMS generated train consist report will be produced for the benefit of the Train Crew.

At other originating locations written train consist sheet will be prepared for the train crew and a copy left with the OIC for transmittal to the nearest RAMS input location.

Where the originating location is unattended, a copy of the written train consist is to be handed in at the first attended location enroute for transmittal to the nearest RAMS input location.

When practicable every effort is to be made to provide the train crew with an up to date RAMS generated consist report at the first attended computer equipped location where the train is scheduled to stop.

**Train consist changes enroute.** The enroute attach/detach forms must be compiled by the Train Crew and details (actual vehicle numbers) transmitted by base radio or telephone to the Train Controller so RAMS can be updated.

The Train Controller will update RAMS and advise the train crew of the updated length and tonnage and any other information pertinent to the operation/running of their train.

Train consist on incoming trains together with attaches and detaches sheet must be delivered to the OIC at the train destination so that the arrival consist can be validated (Main line Depot in case of branch line working).

If a radio and/or telephone fault occurs enroute, information is to be compiled on the forms in the usual manner and communicated to the Train Controller by the best means available according to the circumstances. Completed forms must be delivered to the OIC at the Train Destination.

On branch line working, particularly on grain lines, separate train consist forms for trains working in each direction must be compiled and attaches/detaches recorded on or attached to the respective forms.

## DANGEROUS GOODS

There is a legal requirement to declare all dangerous goods. The Train Operator accepting the dangerous goods consignment must therefore ensure that the proper documentation accompanies each and every dangerous goods consignment.

## NETWORK SERVICE PLAN



## OPERATING REQUIREMENTS

The Dangerous Goods Document must, on receipt, be faxed to the Intermodal Customer Service Section and Control and the destination location **before** the original papers are placed in the dangerous goods bag for the train crew.

The RAMS consist report will readily identify all dangerous goods wagons/containers in the train consist by displaying the class risk in the DG field against the wagons concerned. However, for the more specific details such as UN Number or Class Description, the Crew must refer to the contents of the dangerous goods bag.

### SAMPLE TRAIN CONSIST

**Train ID:** 9421  
**Train Date:** 11/11/2005  
**Origin:** NGY  
**Destination:** LYN  
**Total Tonnes:** 760.2  
**Total Length:** 173.5  
**No. of Units:** 11  
**Locomotives:**

DAN GDS	VEHICLE	ID	COMM	MASS	SENDER	CONSIGNEE	ORIGIN	DESTN	MC
1	X	37	T	116.00			NGY	LYN	L16
2	VPCX	23	S CEMT	68.00	IND	IND	NGY	LYN	ST3
3	VPAX	71	L CEMT	69.40	IND	IND	NGY	LYN	
4	VPAX	76	K CEMT	69.40	IND	IND	NGY	LYN	
5	VPAX	83	Y CEMT	69.10	IND	IND	NGY	LYN	
6	VPAX	85	J CEMT	69.10	IND	IND	NGY	LYN	
7	VPAX	87	E CEMT	69.40	IND	IND	NGY	LYN	
8	VPAX	91	E CEMT	69.40	IND	IND	NGY	LYN	
9	VPAX	92	N CEMT	69.10	IND	IND	NGY	LYN	
10	VPAX	105	V CEMT	69.10	IND	IND	NGY	LYN	G
11	VPAX	106	H CEMT	69.10	IND	IND	NGY	LYN	
12	VPCX	60	A CEMT	69.10	IND	IND	NGY	LYN	

### WAGON INSTRUCTIONS

From Locn	Attach Locn	Qty	Loaded	Type	Comm.	Detach Locn	For Dest	Comments
WPD	NGY	11	L	CEMP	CEMT	LYN	LYN	Ex 9246-10.11.2005

### LOCOMOTIVE INSTRUCTIONS

Status	Loco Nbr	Attach Locn	Detach Locn	Next Task
W	X37	NGY	LYN	9424 (11/11)

### COMMENTS

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### COLEMAN RAIL

#### TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge
Ballast Tamper	CR-T1	Harsco Technologies, TV2, Pandrol Jackson	14.85	32.0	30	30	BG
Ballast Regulator <b>α</b> #	CR-R1	Kershaw 26/3	9.703	12.635	30	30	BG/SG
Sleeper Trailer <b>α</b>	TRR-003	Harry Bilt	6.7	25.0	15	NA	BG, SG
Sleeper Trailer <b>α</b>	TRR-010	Harry Bilt	8.150	25.0	15	NA	BG, SG
Sleeper Trailer <b>α</b>	TRR-012	Harry Bilt	4.2	15.0	15	NA	BG, SG
Sleeper Trailer <b>α</b>	TRR-013	Harry Bilt	5.2	16.75	15	NA	BG, SG
Sleeper Trailer <b>α</b>	TRR-017	Harry Bilt	5.2	16.75	15	NA	BG, SG
Sleeper Trailer <b>α</b>	TRR-024	Harry Bilt	5.2	16.75	15	NA	BG, SG

**Note α – Operates in closed work site only after site specific risk assessment.**

**Note # - Not approved to operate within platform pits account clearance**

#### ROAD / RAIL VEHICLES

Registration No.	Plant No.	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks/Owner
N/A <b>α</b>	110210	Kenworth Truck, K125	30	18.40	7.9	
ZMN 404 <b>α</b>	110509 No.10	Hitachi – ZX170W-3 High-Rail Excavator	15	18.6	8.82	
ZMN 406 <b>α</b>	110510 No.11	Hitachi – ZX170W-3 High-Rail Excavator	15	18.6	8.82	
NA <b>α</b>	3794	Hitachi Zaxis 135 US-3, Excavator	20	17.19	7.37	
YHU-408 <b>α</b>	No 7	CAT M316 D, Excavator	20	17.0	8.55	
YHU-407 <b>α</b>	No 8	CAT M316 D, Excavator	20	17.0	8.55	
YSG 043 <b>α</b>	N/A	Hino 500FD 2-axle Tray	20	10.4	8.59	
NA <b>α</b>	3795	Volvo ECR88, Excavator	7	11.0	6.41	
ZCK 464 <b>α</b>	N/A	Hino 3-way Tipper	20	10.4	7.18	

**Note α – Operates in closed work site only after site specific risk assessment.**

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### COLEMAN RAIL

#### ROAD / RAIL VEHICLES

##### On Hire/Lease to COLEMAN RAIL

Registration No.	Plant No.	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks/Owner
N/A <b>α</b>	C103	Hi Rail Excavator, Hitachi 170W, 2011	15	17.0	7.5	Earthtrack Solutions
SWD 787 <b>α</b>	115	Road Rail Tipper Truck, Scania 124G, 2004	20	27.5	8.6	Rail Maintenance Services
N/A <b>α</b>	C101	High Rail Excavator, CAT 316D, 2009	15	17.0	7.9	Earthtrack Solutions
N/A <b>α</b>	C104	Komatsu PC138US-8 Excavator	15	13.85	7.26	Earthtrack
N/A <b>α</b>	C105	Komatsu PC138US-8 Excavator	15	13.85	7.26	Earthtrack
N/A <b>α</b>	C106	Hyundai R170W-9 Excavator	15	27.0	8.26	Earthtrack
ZPZ 195 <b>α</b>	Z025/033	Hitachi ZX170W, Excavator	20	19.0	8.83	Earthtrack
N/A <b>α</b>	Z025/032	Hitachi ZX 170W Excavator	20	19.0	8.62	Earthtrack
N/A <b>α</b>	Unit 79	Komatsu PC138 Excavator	20	17.3	4.2	Earthtrack/RMS
N/A <b>α</b>	I109	Thwaites 9 ton 180 Dump Truck	15	15.0	5.01	Earthtrack
1AQ2UN <b>α</b>	JR04	Hi-Rail Wheeled Excavator, Komatsu PW140-7	15	16.740	7.7 including dipper arm	Jordan Rail
N/A <b>α</b>	MTM 7402014	Hyundai 140 W-9, High rail Excavator	15	19.0	6.05	Jordan Rail
N/A <b>α</b>	30219	Komatsu PC138US, High rail Excavator	15	19.0	8.05	Jordan Rail
1AQ 2UP <b>α</b>	802	Hitachi ZX170W-3 Excavator	15	20.0	8.69	Jordan Rail
25485-D <b>α</b>	DMP01	Hydrema 992C Dump Truck	15	45.0	13.6	Jordan Rail
39825-D <b>α</b>	203	Ausa D1000 APG Dump Truck	20	15.07	4.99	Jordan Rail
N/A <b>α</b>	45501	Rail Lifter, Gemco Rail, Model C.42881.	20	2.12	3.1	John Holland Rail
UOY822 <b>α</b>	2	Rigid Truck, Isuzu, Model No NPS400	15	7.5	7.100	Fast Track
ZWJ-256 <b>α</b>	N/A	Isuzu NPR, Road Rail Tray Truck	20	7.500	7.20	Fast Track
YBI 521 <b>α</b>	N/A	Mitsubishi Canter FT003 Tray Truck	20	6.0	6.49	Fast Track
UXN 991 <b>α</b>	N/A	Nissan Patrol	20	2.028	5.8	Fast Track
ZOY 434 <b>α</b>	6	Hitachi 2x170W Excavator	15	21.0	7.96	Tenex Rail

**Note α – Operates in closed work site only after site specific risk assessment.**

## RAIL OPERATORS ROLLING STOCK

### DOWNER EDI WORKS.

#### TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge
Ballast Tamper	TA001,002,004, 005	Pandrol Jackson 6700s Ballast Tamper	13.3	31.8	72	50	BG
Ballast Tamper	TA0008	Harsco MKV1 Tamper	15.37	35.36	80	N/A	BG/SG
Ballast Regulator	BR001,002,003, 005, 006	Knox Kershaw KBR850 Ballast Regulator	11.2	16	72	50	BG
Ballast Regulator	BR0008	Knox Kershaw KBR925	11.48	21.04	80	N/A	BG/SG
Ballast Compactor	CO 001	Plasser M393 Ballast Compactor	8.6	20.2	30	30	BG
Sleeper Inserter	SI 001	Nordco Tripp Tie Inserter	16.3	10.7	30	30	BG

#### ROAD / RAIL VEHICLES

#### On Hire/Lease to DOWN EDI WORKS

Registration No.	Plant No.	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks/Owner
ZKO533 <b>α</b>	1	Excavator, Liebherr, Model No. A900C	20	21	10.350	Howells
WBG962 <b>α</b>	2	Excavator, Caterpillar, Model No. M316C	30	19.4	12.100	Howells
YLI763 <b>α</b>	6	Excavator, Caterpillar, Model No. M316C	30	19.4	12.100	Howells
XFZ466 <b>α</b>	8	Excavator, Caterpillar, Model No. M316D	30	19.4	12.100	Howells
ZKO527 <b>α</b>	9	Excavator, Liebherr, Model No. A900C	20	21	10.350	Howells
ZKO526 <b>α</b>	10	Excavator, Liebherr, Model No. A900C	20	21	10.350	Howells
ZKO530 <b>α</b>	11	Excavator, Caterpillar, Model No. M316D	30	19.4	12.100	Howells
ZKO529 <b>α</b>	12	Excavator, Caterpillar, Model No. M316D	30	19.4	12.100	Howells
N/A <b>α</b>	14	Excavator, Caterpillar, Model No. M316D	30	19.4	12.100	Howells
XTU466	Tip2	Tip Truck, Hino, Model No 700/2813	34	22	8.550	Howells
N/A <b>α</b>	TR01 & TR02	Trailer, 2680	30	30	2.600	Only with Excavator Howell
UOY822 <b>α</b>	2	Rigid Truck, Isuzu, Model No NPS400	15	7.5	7.100	Nash
XGZ122 <b>α</b>	3	Utility, Nissan Patrol	15	3	5.850	Nash
YBI522 <b>α</b>	3	Rigid Truck, Mitsubishi. Canter	15	7.5	5.650	Nash
UMP554 <b>α</b>	5	Rigid Truck, Isuzu, Model No NPS400	15	7.5	7.100	Nash
YUM708 <b>α</b>	JAANPR75LB7 100330	Rigid Truck, Isuzu, Model No NPR300 crew	20	6.5	8.0	McLeod Rail

Note **α** – Operates in closed work site only after site specific risk assessment.

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### ESPEE RAILROAD SERVICES

#### DIESEL ELECTRIC LOCOMOTIVES

Class	Max. Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Cap. (Litres)	Overall Length to 100mm	Kw for Traction	Remarks / Restrictions
500	65	61.3	15.4	3180	12.600	372	518 <b>Standard Gauge Only.</b>
Y	65	68	17.00	4550	13.300	450	102, 104, 115, 133, 151, 169 <b>Standard Gauge Only.</b>
GM	115	123	20.50	6825	18.600	1340	36 <b>Standard Gauge Only.</b>
TL	100	72	18.00	3505	14.480	985	152, 154, 155 May operate as T Class locomotive category. <b>Standard Gauge Only.</b>

#### ON HIRE/LEASE TO ESPEE RAILROAD SERVICES

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Seymour Railway Heritage Centre	X	115	114	19.00	6,820	18.400	1340	No. 31 (Series 1)

#### PASSENGER VEHICLES

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Remarks / Restrictions
CP	Supply Van	115	37.0	12.801	24, 30, 35 <b>Standard Gauge Only</b>
PCK	Power Van	115	42.6	19.120	713 <b>Standard Gauge Only</b>
AK	Pass Car	115	44.9	21.875	500, 502 <b>Standard Gauge Only</b>
BK	Pass Car	115	44.9	21.875	600, 603, 604, 605 <b>Standard Gauge Only</b>
BK	Pass Car	115	41.2	19.120	700, 702, 703, 711, 712, 714, 715 <b>Standard Gauge Only</b>
DCK	Dining Car	115	49.8	21.875	601, 607 <b>Standard Gauge Only</b>
LCK	Lounge Car	115	44	19.120	708 <b>Standard Gauge Only</b>

## NETWORK SERVICE PLAN



## RAIL OPERATORS ROLLING STOCK

### GENESEE & WYOMING AUSTRALIA PTY LTD

#### DIESEL ELECTRIC LOCOMOTIVES

Class	Max. Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Cap. (Litres)	Overall Length to 100mm	Kw for Traction	Remarks / Restrictions
22 ♦	115	110	18.30	5,450	18.440	2000	Nos. 2207, 2210, 2212, 2214, 2216. Double ended. Maximum speeds applicable to 'G' class locomotives. May haul loads applicable to 'X' class locomotives for loads <b>Standard Gauge Only</b>
700	112	112	18.60	5455	18.670	1490	Nos. 701, 703 & 705 May operate as per 'X' class locomotive category. <b>Standard Gauge Only</b>
ALF	115	129.7	21.60	9600	20.684	3000	Nos 18 – 24. Restricted access since vehicle exceeds 19 tonne axle limit. Single ended. May operate as per G class locomotive category. <b>Standard Gauge Only</b>
CLF	115	131.9	22.00	9600	20.498	3000	Nos 5, 6. Restricted access since vehicle exceeds 19 tonne axle limit. Single ended. May operate as per C class locomotive category. <b>Standard Gauge Only</b>
CLP	115	131.9	22.00	9600	20.498	3000	Nos 8, 14, 16, 17. Restricted access since vehicle exceeds 19 tonne axle limit. Single ended. May operate as per C class locomotive category. <b>Standard Gauge Only</b>
GM (Type 2)	115	116	19.30	6,825	17.900	1340	Nos. 32, 34, 37, 38, 40, 42 - 47 Single ended. <b>Standard Gauge Only.</b>

**Note ♦** Also known as 2200 Series

#### DIESEL ELECTRIC LOCOMOTIVES

##### ON HIRE/LEASE TO GENESEE & WYOMING PTY LTD

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Chicago Freight Car Leasing Australia	S	115 ●	123	20.50	6,825	18.600	1340	No. 311
	T	100	69	17.30	3,410	13.400	710	No's. 369, 376, 377.

**Note ●** Maximum speed 50 km/h when running Hostlers end leading. These Locomotives are only permitted to operate on Main Lines from the Driving end, except for Hostlers end movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

#### FREIGHT VEHICLES

Class	Description of Vehicle	Max. Speed Km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity Evenly distributed (Tonnes)	Permissible Overload (Kg)	Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht. (mm)	Remarks / Restrictions
AHGX	Grain Hopper	80	21.4	56		14.580	1600 1435	Yes	SHBX		Ground operated lids & automatic discharge doors
AHHF	Grain Hopper	80	26.5	49.5 ♦		15.420	1435		AHHH, AHHE, AHHY		No's 1-27

**Note ♦** Maximum capacity is 49.5 tonnes due to vehicle not to exceed 19 tonne axle limit

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### GENESEE & WYOMING AUSTRALIA PTY LTD

#### FREIGHT VEHICLES

##### ON HIRE/LEASE TO GENESEE & WYOMING PTY LTD

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
CGAY	Covered Hopper	110	24.0	76.00 tonnes 68.0 m <sup>3</sup> ♦		15.500	1435	No			Pneumatic Discharge <b>Standard Gauge Only</b> (CFCLA)

#### TRACK RECORDING VEHICLES

##### OPERATE BY GENESEE & WYOMING PTY LTD ON A 'HOOK & PULL' AGREEMENT

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for bogie exchange	Remarks/Restriction
AK	Track Recording Vehicle	115	46	23.900	1435	No	Nos. 2382, 2383, 2384 Air Conditioned, All Steel body, Auto Coupling and 914t draw gear capacity. Vehicle is used for inspecting and ride recording of <b>Standard Gauge</b> Track

## RAIL OPERATORS ROLLING STOCK

### GREAT SOUTHERN RAIL LTD

#### PASSENGER VEHICLES

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Remarks / Restrictions
ACC Ω	Lounge Car	115	48.7	23.826	No. 223 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
AFC Ω	Lounge Car	115	41.3	23.826	No. 213, 301, 305, 307, 937 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
AG	First Class Sitting Car	115	46.8	23.850	No. 369, 372, 373, 374, 375, 376 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
AOB Ω	Lounge Car	115	44.1	23.826	No. 265 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
ARJ Ω	First Class Roomette Sleeping Car	115	47.5	23.826	No. 242, 243, 272, 282, 941, 945, 984 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
ARL Ω	First Class Twinette Sleeping Car	115	47.8	23.826	No. 246, 248-250, 289, 291, 293, 308-310, 324, 326, 921-923, 925, 961-963, 992 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
ARM Ω	First Class Twinette Sleeping Car	115	47.7	23.826	No. 288, 947, 951-953, 987, 990 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
BG	Economy Class Sitting Car	115	46.8	23.850	No. 368, 370, 371 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
BJ	Economy Class Sitting Car	115	46.8	23.850	No. 4-10 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
BMC	Special Car	115	48	23.900	No. 2 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
BRG Ω	Twinette Sleeping Car	115	49.3	23.826	No. 168, 171, 175, 972, 974 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
BRJ Ω	Twinette Sleeping Car	115	48.7	23.826	No. 270, 302, 303, 912, 915, 918, 919 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
CCL	Lounge Car	115	43.0	23.900	No. 2 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
CDF Ω	Dining Car	115	44.1	23.826	No. 225, 924, 928, 929, 966 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
DF Ω	Dining Car	115	47.3	23.826	No. 231-233, 294, 304, 927, 930, 934, 964 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
ER Ω	Crew Car	115	47.0	23.826	No. 207, 313, 906, 909 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
HGM Ω	Power Van	115	56.6	23.826	No. 296-298, 317, 900, 902-904 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
HM Ω	Luggage Van	115	39.6	23.826	No. 255, 256, 318, 957-959 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
JTB	Twinette Sleeping Car	115	48.0	23.900	No. 1-4 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### GREAT SOUTHERN RAIL LTD

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Remarks / Restrictions
PCO	Power Van	115	67.0	23.900	No. 4 Stainless Steel Body, Auto couplings. <b>Standard Gauge Only</b>
PHN	Power Van	115	31.0	12.450	No. 2369 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
RBJ	Economy Class Sitting Car with Buffet	115	46.7	23.850	No. 3 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>
SSA $\Omega$	Excursion Sleeping Lounge Car	115	46.0	23.800	No. 260 Stainless Steel Body, Air-conditioned, Auto couplings. <b>Standard Gauge Only</b>

**Note  $\Omega$**  Authorised to operate on SG Network Southern Cross Station only

### FREIGHT VEHICLES

Class	Description of Vehicle	Max. Speed Km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity Evenly distributed (Tonnes)	Permissible Overload (Kg)	Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht. (mm)	Remarks / Restrictions
AMPZ $\Omega$	Car Wagon	115	28			23.115	1435	No			No. 238, 264, 271 <b>Standard Gauge Only</b>
AMRZ $\Omega$	Car Wagon	115	28			23.115	1435	No			No. 240, 241, 244, 251, 255, 258, 263, 268, 269, 272, 2591, <b>Standard Gauge Only</b>

**Note  $\Omega$**  Authorised to operate on SG Network Southern Cross Station only



## RAIL OPERATORS ROLLING STOCK

### INTERAIL

#### DIESEL ELECTRIC LOCOMOTIVES

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks / Restrictions
CS	120	46.6	28.00		21.100		Nos. 01, 102
G	115	128	21.80	9,600	20.700	2240	Nos. 516, 534 Fitted with Super Series traction equipment
X	115	118	19.70	6,820	18.400	1490	Nos. 53, 54

## RAIL OPERATORS ROLLING STOCK

### JOHN HOLLAND

#### TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge
Ballast Cleaner	6-40-001 #	Plasser RM74	28.0	75	80	50	BG/SG
Ballast Regulator	N/A	Tamper BEA 17	7.0	14	50	40	BG/SG
	N/A	Plasser USP 3000	15.0	29	70	40	SG
	6-54-002	Comeng Mk 2	8.9	12.5	70	50	BG
	6-54-004	Plasser PBR 201C	9.6	19	70	50	BG
	6-54-005	Plasser PBR 201C	8.0	15.5	70	50	BG
	6-54-007	Plasser PBR 201A	9.6	19.2	70	40	SG
	6-54-013	Plasser PBR 201B	8.0	15.5	70	50	SG
	6-54-014	Plasser PBR 201B	8.0	15.5	70	50	BG
	6-54-015	Plasser PBR 201B	9.6	19	70	50	BG
	6-54-017	Tamper BE VR	6.8	12	70	50	BG
Ballast Tamper	N/A	Tamper Torsion Beam	14.0	24	40	30	SG/BG
Ballast Tamper	41229	Plasser 07-16 Mainliner	18.3	39.75	80	50	SG/BG
Ballast Tamper	41265	Plasser 08-16SH	14.54	42.65	80	50	BG
Beaver Tamper	6-52-006	Plasser 79-800W	14.0	36	70	50	BG
	6-52-014	Plasser 79-800W	14.0	36	70	50	SG/BG
	6-52-020	Plasser 79-800W	14.0	36	70	50	BG
Crib & Shoulder Compactor	6-57-003	Tamper CSC-2	7.0	14	50	40	BG
	6-57-005	Tamper CSC-2	7.0	14	50	40	BG
	6-57-006	Tamper CSC-2	7.0	14	50	40	BG
	6-57-007	Tamper CSC-2	7.0	14	50	40	BG
	6-57-008	Tamper CSC-2	7.0	14	50	40	BG
Flashbutt Welder	6-62-001 #	Plasser K355PT	16.5	52	70	35	BG/SG
Production Tamper	6-52-001	Plasser 07-16B	14.0	32	70	50	BG
	6-52-012	Plasser 07-16B	14.0	32	70	40	BG
	6-52-013	Plasser 07-16B	14.0	32	70	50	BG
	6-52-018	Plasser 07-16B	14.0	32	70	50	BG
	6-52-021	Plasser 08-16B	14.0	32	70	50	BG
	6-52-022	Plasser 08-16B	14.0	32	70	50	SG
	6-52-023	Plasser 08-16B	14.0	32	70	50	SG
	N/A	Plasser 09-32	20.0	72	80	50	SG
Rail Grinder	N/A ♣	Loram	90.0	350	90	80	SG
	N/A	Loram	23.0	51	40	30	SG/BG/NG
	N/A	Loram	76.0	328	100	90	SG
Switch/Track Panel Handling Equipment	340130-40	PEM 807(6 Units) (even numbers)	2.11	24.0 (Loaded)	6	N/A	BG/SG
	340131-41	LEM 460(6 Units) (even numbers)	3.28	24.2(Loaded)			
Switch Tamper	412001	Plasser Unimat 08-475/4S, Serial No M520	32.30	98	40	N/A	BG/SG
Switch Tamper	41230	Plasser 07-275 DN	18.53	41	80	N/A	SG

**Note #** These machines are not insulated and will not operate Track Circuits. All other machines cannot be relied upon to operate Track Circuits and must be protected as prescribed by instructions in the Book of Rules and Operating Procedures 1994.

**Note ♣** Available to run on the V/Line Passenger Network only. Must operate as a train when proceeding through a section. Must operate under cover of an Absolute Occupation or a Track Warrant when required to "work in section."

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### JOHN HOLLAND

#### ROAD / RAIL VEHICLES

Registration Number	Plant Number	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks
YYT598 <b>α</b>	RRLCMR23	Excavator, Caterpillar Model No. M316D	15	5.79	8.4	
22891 <b>α</b>	323057	Excavator, Komatsu Model No. PC138US-8	15	25.0	4.76	
N/A <b>α</b>	323059	Hi-rail Excavator, Komatsu Model No. PC138US-8	20	18.8	8.1	
N/A <b>α</b>	323060	Hi-rail Excavator, Komatsu Model No. PC138US-8	20	18.8	8.1	
N/A <b>α</b>	323061	Hi-rail Excavator, Komatsu Model No. PC138US-8	20	18.8	8.1	
N/A <b>α</b>	427005	HR Trolley, Philmore, Model No. T6020HH	10	20.0	6.0	
N/A <b>α</b>	427006	HR Trolley, Philmore, Model No. T6020HH	10	20.0	6.0	
NSW 18553D <b>α</b>	341223	HR Telescopic Handler, EWP, Crane, Fork. Dieci/Rexquote Pegasus Railmaster 45.19TA Telescopic Handler	19	21.93	9.318	6.760 metres without EWP basket fitted.
ULV064 <b>α</b>	326267	MR High Rail Welders truck, Isuzu NPR400	40	6.7	7.0	
ULV063 <b>α</b>	326266	Medium Rigid Hi-rail welders truck	40	6.7	7.0	
N/A <b>α</b>	45501	Rail Lifter, Gemco Rail, Model C.42881.	20	2.12	3.1	
N/A <b>α</b>	45502	Rail Lifter, Gemco Rail, Model C.42881.	20	2.12	3.1	

**Note α – Operates in closed work site only after site specific risk assessment.**

#### ROAD / RAIL VEHICLES

#### On Hire/Lease to JOHN HOLLAND

Registration No.	Plant No.	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks/Owner
02320C <b>α</b>	MC64	Excavator, Hitachi, Model No.ZX170W	10	18	8.69	Montgomery Construction & Rail
04098C <b>α</b>	MC23	Excavator, Hyundai, Model No.R140W-9	10	15	7.740	Montgomery Construction & Rail
1BF 9JG <b>α</b>	MC68	Hyundai Robex 140w-9 Excavator	10	23.5	6.1	Montgomery Construction & Rail
N/A <b>α</b>	MW06	Harrybilt 4M Flat top trailer	15	2.0	4.0	Montgomery Construction & Rail
N/A <b>α</b>	MW07	Harrybilt 4M Flat top trailer	15	2.0	4.0	Montgomery Construction & Rail
N/A <b>α</b>	MW30	Hitachi ZX135US Excavator	15	21.0	7.37	Montgomery Construction & Rail
N/A <b>α</b>	E60	Harrybilt 4M Flat top trailer	15	2.0	4.0	Rail Maintenance Services
N/A <b>α</b>	E175	Harrybilt 4M Flat top trailer	15	2.0	4.0	Rail Maintenance Services
N/A <b>αβ</b>	Unit 57	Hitachi ZX135 tracked excavator	20	17.76	7.54	Rail Maintenance Services
N/A <b>α</b>	Unit 78	Komatsu PC138 Excavator	20	17.3	4.2	Rail Maintenance Services
YNQ498 <b>α</b>	101	Elevated Work Platform, International, Model No. ACCO2350G	20	22.0	9.40	RMS
SWD787 <b>α</b>	115	Trout River, Scania, Model No. 124G	20	27.5	8.60	RMS
ZDH368 <b>α</b>	Unit 82	Road Rail Tipper Truck, Isuzu 1400 FVZ	15	24	7.74	Rail Maintenance Services

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### JOHN HOLLAND

Registration No.	Plant No.	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks/Owner
ZJH728 <b>α</b>	Unit 127	Hi-Rail Boom Lift (EWP), Hino	20	10.4	7.96	Rail Maintenance Services
ZZR898 <b>α</b>	Unit 151	Hi-Rail Crane Tray Truck, Hino	20	9.84	9.9	Rail Maintenance Services
1BE5EV <b>α</b>	Unit 164	Hi-Rail Boom Lift Truck, Hino	15	13.34	9.1	Rail Maintenance Services
1EW 6FX <b>α</b>	Unit 177	Hino 500 FM2630 Tip Truck	15	26.0	8.25	Rail Maintenance Services
1AQ2UN <b>α</b>	JR04	Hi-Rail Wheeled Excavator, Komatsu PW140-7	15	16.740	7.7 including dipper arm	Jordan Rail
N/A <b>α</b>	Unit 136	Hi-Rail Wheeled Excavator, Liebherr A900 CZW	15	21.5	8.8 including dipper arm	Rail Maintenance Services
N/A <b>α</b>	Unit 145	Excavator fitted with Rail Guidance System, Hitachi Zaxis 170W	15	21.2	9.1	Rail Maintenance Services
N/A <b>α</b>	Unit 59	Hi-Rail Tracked Excavator, Komatsu PC138US-2	15	16.8	8.0	Rail Maintenance Services
N/A <b>α</b>	Unit 143	Excavator fitted with Rail Guidance System, Hitachi ZX 170-3W	15	21.5	9.0	Rail Maintenance Services
1DT 4UN <b>α</b>	N/A	Hi-Rail Wheeled Excavator, Hitachi ZX140W-3	15	18.040	7.0	Jordan Rail
ZKO 533 <b>α</b>	1	Liebherr A900 CZW Excavator	20	20.0	8.8	Howell Rail
ZKO-526 <b>α</b>	PL-10	Hi-Rail Wheeled Excavator, Liebherr 900 Excavator	15	21.5	5.0	Howell Rail
N/A <b>α</b>	9	Liebherr A900 CZW Excavator	15	21.5	8.8	Howell Rail
N/A <b>α</b>	15	Liebherr A900 CZW Excavator	15	21.5	8.8	Howell Rail
ZKO 530 <b>α</b>	11	Excavator, Caterpillar, Model No. M316D	20	20.1	12.100	Howell Rail
ZKO 529 <b>α</b>	12	Excavator, Caterpillar, Model No. M316D	20	20.1	12.100	Howell Rail
XAL 241 <b>α</b>	3	UD GW470 3 Axle Tipper	15	26.0	8.52	Howell Rail Axle 1 must have new Flexitors fitted every 12 months
1AQ 2UO <b>α</b>	N/A	Hi-Rail Excavator, Hitachi 170W	15	17.001	8.69	Jordan Rail
N/A <b>α</b>	HR1	Cat M316, High Rail Excavator	15	22.2	8.55	RJ Rail Pty Ltd
YBI 522 <b>α</b>	001	Mitsubishi Canter, Road Rail Tray Truck	15	6.0	6.64	GTE
XGZ 122 <b>α</b>	002	Nissan Patrol Utility	15	3.4	5.8	GTE
XDS 680 <b>α</b>	003	Nissan Patrol Utility	15	3.4	5.8	GTE
XGZ 148 <b>α</b>	004	Nissan Patrol Utility	15	3.4	5.8	GTE
1FF 1PA <b>α</b>	WU10	Toyota Landcruiser Utility	20	3.9	6.14	Nu Group
1EZ 5FF <b>α</b>	WU06	Toyota Landcruiser Utility	20	3.9	6.12	Nu Group

**Note α – Operates in closed work site only after site specific risk assessment.**

## NETWORK SERVICE PLAN





## RAIL OPERATORS ROLLING STOCK

### LEIGHTON

#### ROAD / RAIL VEHICLES

##### On Hire/Lease to LEIGHTON

Registration No.	Plant No.	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks/Owner
N/A <b>α</b>	C103	Hi Rail Excavator, Hitachi 170W, 2011	15	17.0	7.5	Earthtrack Solutions Pty Ltd
SWD 787 <b>α</b>	115	Road Rail Tipper Truck, Scania 124G, 2004	20	27.5	8.6	Rail Maintenance Services
N/A <b>α</b>	C101	High Rail Excavator, CAT 316D, 2009	15	17.0	7.9	Earthtrack Solutions

**Note α – Operates in closed work site only after site specific risk assessment.**

## RAIL OPERATORS ROLLING STOCK

### MCCONNELL DOWELL

#### TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge/Remarks/Restrictions
Ballast Tamper	Z025/408	Tamper CSC	7.0	12.4	40	N/A	BG/SG
Ballast Tamper	Z025/083	Harsco Jackson 6700s	14.15	32.5	40	N/A	BG/SG
Ballast Regulator	Z025/100	Kershaw 46-2 Regulator	10.6	18	40	N/A	BG/SG
Ballast Regulator	Z025/103	Harsco BE-AD	10.4	20.5	75	N/A	BG/SG <b>60km/h max speed on Class 3 and 4 Track</b>
Ballast Tamper	Z025/085	Harsco 6700SJ Jupiter	14.15	32.5	50	N/A	BG/SG

#### ROAD / RAIL VEHICLES

Registration Number	Plant / Number	Radio Number	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks
ZOY 434	Z025/030	N/A	Hitachi ZX170W, Excavator	20	19.0	9.49	BG
522 SPE	Z025/031	N/A	Hitachi ZX170W, Excavator	20	19.0	9.49	BG
ZPZ 195	Z025/033	N/A	Hitachi ZX170W, Excavator	20	19.0	8.83	Earthtrack
N/A	Z025/032	N/A	Hitachi ZX 170W Excavator	20	19.0	8.62	Earthtrack

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### METRO TRAINS MELBOURNE

#### PASSENGER VEHICLES

Class and Description of Vehicle	Max Speed Km/h	Mass Rating (Tonnes)	Passenger Seating	Length of Vehicle metres	Number of Vehicles Vehicle Numbers	Remarks / Restrictions
<b>HITACHI (CFD / NOR) TYPE</b>						
<b>M</b> Motor Car	115	51.7	86	23.600	<u>18 vehicles</u> 3, 9, 10, 21–23, 46, 49, 57, 65, 88, 129, 144, 179, 184, 196, 197, 233.	Stainless steel body, auto/drawbar couplings.
<b>T</b> Trailer Car	115	36.4	96	23.600	<u>8 vehicles</u> 1909, 1919, 1922, 1975, 1977, 1981, 1982, 1987.	Stainless steel body, drawbar couplings.
<b>T</b> Trailer Car (Former 'D' type car)	115	36.3	89	23.600	<u>1 vehicles</u> 2007.	Stainless steel body, drawbar couplings. Still with (non-operational) cabs and 'D' car seating configuration.
<b>HITACHI (BLY / CHL) TYPE</b>						
<b>M</b> Motor Car	115	51.7	86	23.600	<u>6 vehicles</u> 36, 37, 42, 105, 110, 178.	Stainless steel body, auto/drawbar couplings.
<b>T</b> Trailer Car	115	36.4	96	23.600	<u>2 vehicles</u> 1910, 1979.	Stainless steel body, drawbar couplings.
<b>T</b> Trailer Car (Former 'D' type car)	115	36.3	89	23.600	<u>1 vehicles</u> 1999.	Stainless steel body, drawbar couplings. Still with (non-operational) cabs and 'D' car seating configuration.
<b>COMENG (EDI) TYPE</b>						
<b>M</b> Motor Car (with Standard Tread Brakes)	115	50.6	89	24.000	<u>192 Vehicles</u> 301#–321#, 324, 327–329, 331–337, 342–349, 351–358, 365, 366, 369–372, 377–387, 389, 390–412, 417, 418, 421–424, 426–458, 464–466, 471–474, 477, 478, 481–483, 485–487, 493–499, 501–508, 511–516, 518–522, 525, 526, 530–532, 534–536, 539–550, 553, 554.	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings. #–Nos. 301–321 contains Full Innovonics Equipment upgrade.
<b>M</b> Motor Car (with Standard Tread Brakes.)	115	50.4	75	24.000	<u>2 vehicles</u> 541, 542.	Under trial. Modified seating. Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
<b>M</b> Motor Car (with Standard Tread Brakes and AEG equipment)	115	50.6	89	24.000	<u>2 vehicles</u> 367, 368.	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
<b>T</b> Trailer Car (with Standard Tread Brakes)	115	34.7	100	23.200	<u>96 vehicles</u> 1001–1010, 1014–1019, 1023, 1024, 1026–1029, 1031, 1033, 1035, 1036, 1039–1056, 1059, 1061–1068, 1069–1079, 1082, 1083, 1086, 1087, 1089, 1091, 1093, 1097–1099, 1100–1104, 1106–1108, 1110, 1111, 1113, 1115, 1116, 1118, 1120–1127.	Air-conditioned, stainless steel body. Semi-permanent couplings.
<b>T</b> Trailer Car (with Standard Tread Brakes)	115	34.5	80	23.200	<u>1 vehicles</u> 1121.	Under trail. Modified seating. Air-conditioned, stainless steel body. Semi-permanent couplings.
<b>T</b> Trailer Car (with Standard Tread Brakes and AEG equipment)	115	34.7	100	23.200	<u>1 vehicles</u> 1034.	Air-conditioned, stainless steel body. Semi-permanent couplings.

#### COMENG (ALSTOM) TYPE

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### METRO TRAINS MELBOURNE

Class and Description of Vehicle	Max Speed Km/h	Mass Rating (Tonnes)	Passenger Seating	Length of Vehicle metres	Number of Vehicles Vehicle Numbers	Remarks / Restrictions
<b>M</b> Motor Car (with Standard Tread Brakes)	115	50.6	86	24.000	<u>50 vehicles</u> 322, 323, 325, 326, 330, 338–341, 350, 359–364, 373–376, 419, 420, 425, 459–463, 467, 468, 475, 476, 479, 480, 484, 488–492, 509, 510, 517, 523, 524, 527, 528, 529, 537, 538.	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
<b>M</b> Motor Car (with Knorr Tread Brakes)	115		86	24.000	<u>4 Vehicles</u> 413, 414, 415, 416.	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
<b>M</b> Motor Car (with Disc Brakes)	115	47.1	86	24.000	<u>118 vehicles</u> 561–670, 673–680.	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
<b>M</b> Motor Car (with Tread Brakes and Chopper equipment)	115	62.1	86	24.000	<u>8 vehicles</u> 691–698.	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
<b>T</b> Trailer Car (with Standard Tread Brakes)	115	34.6	96	23.200	<u>26 vehicles</u> 1011–1013, 1020–1022, 1025, 1030, 1032, 1037, 1038, 1060, 1080, 1081, 1084, 1088, 1090, 1092, 1094–1096, 1105, 1112, 1114, 1117, 1119.	Air-conditioned, stainless steel body. Semi-permanent couplings.
<b>T</b> Trailer Car (with Knorr Tread Brakes)	115		96	23.200	<u>2 vehicles</u> 1057, 1058.	Air-conditioned, stainless steel body. Semi-permanent couplings.
<b>T</b> Trailer Car (with Disc Brakes)	115	31.1	96	23.200	<u>59 vehicles</u> 1022, 1131–1164, 1166–1190.	Air-conditioned, stainless steel body. Semi-permanent couplings.
<b>T</b> Trailer Car (with Standard Tread Brakes and Chopper equipment)	115	34.6	96	23.200	<u>4 vehicles</u> 1196–1199.	Air-conditioned, stainless steel body. Semi-permanent couplings.
<b>UN-REFURBISHED COMENG (CFD / NOR) TYPE</b>						
<b>M</b> Motor Car (with Standard Tread Brakes)	115	49.8	92	24.000	<u>2 vehicles</u> 500, 533.	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings. Nos. 500 & 533 stored.
<b>T</b> Trailer Car (with Standard Tread Brakes)	115	34.0	102	23.200	<u>1 vehicle</u> 1117.	Air-conditioned, stainless steel body. Semi-permanent couplings. No. 1117 stored.
<b>SIEMENS TYPE</b>						
<b>M</b> Motor Car	130	41.5	84	24.070	<u>144 vehicles</u> 701–844	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
<b>T</b> Trailer Car	130	37.5	96	23.770	<u>72 vehicles</u> 2501–2572	Air-conditioned, stainless steel body. Semi-permanent couplings.
<b>X'TRAPOLIS TYPE</b>						
<b>M</b> Motor Car	130	43.3	86	24.460	<u>116 vehicles</u> 851–966.	Air-conditioned, all steel body. Multi-function/semi-permanent couplings.
<b>T</b> Trailer Car	130	35.5	92	22.760	<u>58 vehicles</u> 1626–1683	Air-conditioned, all steel body. Semi-permanent couplings.
<b>X'TRAPOLIS TYPE(Modified Interior – Second Series)</b>						
<b>M</b> Motor Car	130	43.3	74	24.460	<u>152 vehicles</u> 1–152.	Air-conditioned, all steel body. Multi-function/semi-permanent couplings.

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### METRO TRAINS MELBOURNE

Class and Description of Vehicle	Max Speed Km/h	Mass Rating (Tonnes)	Passenger Seating	Length of Vehicle metres	Number of Vehicles Vehicle Numbers	Remarks / Restrictions
<b>T</b> Trailer Car	130	35.5	80	22.760	<u>768 vehicles</u> 1626–1683	Air-conditioned, all steel body. Semi-permanent couplings.
<b>LOCO HAULED STOCK</b>						
<b>MTH</b> Saloon Car	115	39	63	19.200	<u>4 vehicles</u> 101,103,104.	Air-conditioned, all steel body. Auto couplings. Diesel alternator fitted to supply power.
<b>IEV</b> Inspection Car	80	39	N/A	19.200	1 vehicle, No.102.	Overhead infrastructure inspection vehicle. Pantographs fitted.

### TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge
Track Recorder Car ♦	No. IEV 100 # (Formerly EM100)	Plasser EM100	15.0	46	80 Recording 100 Not Rec	75 80	BG/SG

**Note ♦** On all Safeworking Systems these vehicles must be signalled as a Train and may be followed through Automatic Block Signalling Territory by other trains.  
In Train Order Territory, the Road Number of the Vehicle must be shown as a locomotive number on the Train Order.

**Note #** These machines are not insulated and will operate Track Circuits. All other machines cannot be relied upon to operate Track Circuits and must be protected as prescribed by instructions in the Book of Rules and Operating Procedures 1994.

### ROAD / RAIL VEHICLES

Registration Number	Plant Number	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks
PUF891	VT5001	4WD, EWP	40	17,272	8.75	RFW Tower 2 Axle
PUF882	VT5101	4WD	40	17,272	8.3	RFW Tower Elevator
PUF892	VT5003	4WD, EWP	40	17,272	8.3	RFW EWP
1AK 7YT	LT5167	Isuzu NNR200 Rigid Truck	30 (Worksite 20)	4.500	7.06	

### DIESEL ELECTRIC LOCOMOTIVES

#### ON HIRE/LEASE TO METRO TRAINS MELBOURNE

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Chicago Freight Car Leasing Australia	B	115	123	20.50	4,540	18.500	1120	No. 76,80
	T	100	69	17.30	3,410	13.400	710	No's. 369, 373, 376, 377.

### FREIGHT VEHICLES

#### ON HIRE/LEASE TO METRO TRAINS MELBOURNE

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### METRO TRAINS MELBOURNE

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
CFCF	Flat Rail Threader Wagon	80	24	10		13.970	1600 1435	Yes	VZCA	1186	No. 1 (CFCLA)
CFSX	Auto Sleeper Discharge	80	22	41		13.100	1600 1435	Yes	VZSX GFSX		Nos. 125 (CFCLA)
CHOY	Ballast Hopper Remote Controlled	80 (90 when empty)	25	51		13.200	1600 1435	Yes	VZMF GHMF CHMF		Nos. 6016, 6019-28, 6031, 6045-47 (CFCLA)
CQCY	Container Flat (can also be used to carry rail)	80	18	58		14.691	1600 1435	Yes	NDRF	1130	Nos. 1-10 (CFCLA)
CQRX	Container Flat (can also be used to carry rail)	90	25	51	4000	23.700	1600 1435	Yes	VZRF GQRX	1194	Nos. 310- 314, 318-319. May load to 80 tonnes at 80 km/h max speed (CFCLA)

## TRACK MACHINES

### ON HIRE/LEASE TO METRO TRAINS MELBOURNE

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)	Gauge
Ballast Regulator	6-54-002	Comeng Mk 2	8.9	12.5	70	50	BG
	6-54-018	Tamper BE VR	6.8	12	70	50	BG
Beaver Tamper	6-52-006	Plasser 79-800W	14.0	36	70	50	BG
	6-52-014	Plasser 79-800W	14.0	36	70	50	BG
Crib & Shoulder Compactor	6-57-006	Tamper CSC-2	7.0	14	50	40	BG
Excavator	Unit 60	Komatsu 138	4.2	17.23	20	20	BG
Excavator	Unit 77	Komatsu 138	4.2	17.05	20	20	BG
Excavator	Unit 79	Komatsu 138	4.2	17.12	20	20	BG
Excavator	Unit 136	Liebherr A900	4.88	21.50	15	15	BG
Excavator	Unit 143	Hitachi 170V	5.22	21.50	20	20	BG
Excavator	Unit 80	Komatsu 138	4.2	17.24	20	20	BG
Excavator	Unit 145	Hitachi 170 W	5.22	21.2	20	20	BG
Excavator	Unit 146	Yanmar	3.75	8.87	20	20	BG

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### NEW SOUTH WALES RAIL TRANSPORT MUSEUM

#### DIESEL ELECTRIC LOCOMOTIVES

Class	Max. Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Cap. (Litres)	Overall Length to 100mm	Kw for Traction	Remarks / Restrictions
442 Ω	115	115.0	19.2	5,500	18.700	1600	Nos.44211 <b>Standard Gauge Only.</b>
43 Ω	115	107.6	17.8	5,300	16.410	1300	Nos.4306 <b>Standard Gauge Only.</b>
44 Ω	115	112.0	18.7	5,500	17.800	1450	Nos.4490 <b>Standard Gauge Only.</b>
45 Ω	115	112.0	18.7	5,500	17.880	1450	Nos.4520 <b>Standard Gauge Only.</b>

#### PASSENGER VEHICLES

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Remarks / Restrictions
BCS Ω	Club Lounge/bar Car	115	41	24.430	Nos 2357, 2379 <b>Standard Gauge Only.</b>
FAM Ω	Sleeping car	115	47.8	24.430	Nos 2391 <b>Standard Gauge Only.</b>
LAN Ω	Sleeping car	115	46	24.430	Nos 2352, 2377 <b>Standard Gauge Only.</b>
NAM Ω	Sleeping car	115	46	24.430	Nos 2338, 2373, 2375 <b>Standard Gauge Only.</b>
PHA Ω	Power Car	115	54.4	24.200	Nos 2358, 2359. <b>Standard Gauge Only.</b>
RMS Ω	Dining Car	115	46	23.430	Nos 2358, 2359. <b>Standard Gauge Only.</b>

**Note Ω**                      **Authorised to operate on SG Network Southern Cross Station only**

## RAIL OPERATORS ROLLING STOCK

### NSW TRAINS

#### DIESEL ELECTRIC LOCOMOTIVES

Class	Max. Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Cap. (Litres)	Overall Length to 100mm	Kw for Traction	Remarks / Restrictions
XP	160	76.0	19.00	4,500	17.300	1490	Nos.2000-2016 <b>Standard Gauge Only.</b>
	160	76.0	19.00	4,500	17.300	1490	Nos.2017, 2018. Leased from Dept. of Infrastructure (Vic). <b>Standard Gauge Only.</b>

#### PASSENGER VEHICLES

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Remarks / Restrictions
XAM	XPT Sleeping car	160	48	24.200	Nos 2175-2178. Leased from Dept. of Infrastructure (Vic). <b>Standard Gauge Only.</b>
XAM	XPT Sleeping car	160	48	24.200	Nos 2179-2182. <b>Standard Gauge Only.</b>
XBR	XPT First with Buffet	160	44	24.200	Nos 2150-2158. <b>Standard Gauge Only.</b>
XF	XPT Economy Car	160	42	24.200	Nos 2200-2224. <b>Standard Gauge Only.</b>
XFH	XPT Economy/Luggage Compartment	160	40	24.200	Nos 2104-2110, 2112, 2113. <b>Standard Gauge Only.</b>
XL	XPT First Class Sitting	160	40	24.200	Nos 2228, 2229. Leased from Dept. of Infrastructure (Vic). <b>Standard Gauge Only.</b>
XL	XPT First Class Sitting	160	40	24.200	Nos 2230-2236. <b>Standard Gauge Only.</b>

## NETWORK SERVICE PLAN



## RAIL OPERATORS ROLLING STOCK

### PACIFIC NATIONAL

#### DIESEL ELECTRIC LOCOMOTIVES

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
A	115	121	20.20	4,540	18.500	1680	Nos. 71, 73, 77, 78, 79, 81, 85. Fitted with QTRAC 1000 Adhesion Control System. D77 & 78 Traction Motors fitted & 61:16 Gear Ratios.
BL	115	128	21.30	10,230	20.700	2240	Nos. 26–35 Fitted with Super Series traction equipment
C	115 ♣	134	22.30	10,130	20.600	2240	Nos. 504, 505 have 6,000 litre fuel capacity
DL	115	122	20.30	8,200	19.700	2240	Nos. 36, 38–50 May operate as per XR class locomotive category. <b>Standard Gauge Only</b>
G	115	128	21.80	9,600	20.700	2240	Nos. 519, 520, 522 524, 525, 527, 528, 537–540, 542. Fitted with Super-Series traction equipment.
	115	128	21.80	9,600	20.700	2610	Nos. 523, 526, 529, 530, 531, 536, 541, 543 Fitted with 16–645F3B Engines. Melbourne to Adelaide maximum tonnage to 1150 tonnes per locomotive.
H	100	81	20.30	3,500	13.400	820	Nos. 1–5 Fitted with Low-Speed Control
NR	115	132	22.00	12,500	22.000	2985	Nos. 1, 2, 4–121. May operate as per C class locomotive category. <b>Standard Gauge Only</b>
P	100	77	19.20	3,410	14.600	710	Nos. 19–23 Fitted with auxiliary generator to provide Head End Power
S	115 #	123	20.50	6,820	18.600	1340	Nos. 301, 306, 307, 310
T	100	69	17.30	3,410	13.400	710	Nos. 371, 374, 379, 382, 388, 390, 392, 396
	100	70	17.50	3,500	13.400	820	Nos. 399, 400, 402, 408, 409
V	115 ♣	130	22.00	12,000	22.000	2862	No. 544. May operate as per C class locomotive category. <b>Standard Gauge Only</b>
X	115	114	19.00	6,820	18.400	1340	Nos. 36 (Series 1)
	115	116	19.30	6,820	18.400	1490	Nos. 37, 39, 41–44 (Series 2)
	115 ♦	118	19.70	6,820	18.400	1490	Nos. 45–52 (Series 3)
XR	115 ♦	122	20.30	6,820	18.400	2237	Nos. XR550–554 (Series 1) <b>See Note •</b>
XR2	115 ♦	123	20.50	6,820	18.400	2237	Nos. XR555 (Series 1), XR557–559 (Series 2) Fitted with silencer equipment
XR-B	115	126	22.00	6,800	18.591	2237	No. 560 - 562
Y	65	65	17.00	4,550	13.300	450	Nos. 110, 115, 118, 119, 122, 150
	65	65	17.00	4,550	13.300	450	Nos. 152, 157, 165, 169, 171, 174
	100	68	17.00	4,550	13.300	450	No. 151 Fitted with EMD D77 traction motors. Gear Ratio. 59.18 <b>Standard Gauge Only</b>
81	115	129	21.50	6,600	21.200	2240	Nos. 8101–8184 May operate as per G class locomotive category <b>Standard Gauge Only</b>
93	115	134	22.33	7,300	22.000	3382	Nos. 9301–9308 May operate as per C class locomotive category <b>Standard Gauge Only</b>

**Note #** Maximum speed 50 km/h when running Hostlers end leading. These Locomotives are only permitted to operate on Main Lines from the Driving end, except for Hostlers end movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

**Note ♣** Maximum speed 50 km/h when running long end leading. These Locomotives are only permitted to operate on Main Lines from the Short End/Driver End, except for Long End movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

**Note ♦** Maximum speed 50 km/h when running long end leading. These locomotives are only permitted to operate on Main Lines from the short end, except for long end movements to and from Spencer Street and South Dynon Loco, and Post No.204 at West Tower to South Dynon and return.

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### PACIFIC NATIONAL

return.

- Note •** The following X Class Locomotives are now reclassified as XR Locomotives.  
 X38 = XR550                      X40 = XR552                      X34 = XR554  
 X35 = XR551                      X33 = XR553                      X32 = XR555

### DIESEL ELECTRIC LOCOMOTIVES

#### ON HIRE/LEASE TO PACIFIC NATIONAL

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Bluescope Steel	Y	65	65	17.00	4,550	13.300	450	No. 148
Southern Shorthaul Railroad	B	115	123	20.50	4,540	18.500	1120	No. 61
	S	115 #	123	20.50	6,820	18.600	1340	No. 317
Seymour Rail Heritage Centre	T	100	69	17.30	3,410	14.700	710	No. 320
	T	100	69	17.30	3,410	13.400	710	Nos. 357, 378
	B	115	123	20.50	4,540	18.500	1120	No. 74
	GM	115	116	19.30	6,825	17.900	1305	No. 36
	S	115 #	123	20.50	6,820	18.600	1340	No. 303
Steamrail Inc.	T	100	69	17.30	3,400	13.400	710	Nos. 356, 364, 395
	S	115 #	123	20.50	6,820	18.600	1340	No. 313
Geelong Rail Preservation Society	T	100	69	17.30	3,400	14.600	710	No. 413
Chicago Freight Car Leasing Australia	B	115	123	20.50	4,540	18.500	1120	Nos. 65
	JL	115	113	18.80	5,540	18.669	1490	Nos. 101–106 Operate on all lines authorised and maximum speeds applicable to G class locomotives. May haul loads applicable to X class locomotives <b>Standard Gauge Only</b>
	EL	115	114	19.00	7,500	20.500	2380	Nos. 51–58, 60–64 May operate as per X class locomotives category. Single ended operation only <b>Standard Gauge Only</b>
	T	100	69	17.30	3,410	14.600	710	No. 345
	T	100	69	17.30	3,410	13.400	710	Nos. 363, 369, 377, 385

- Note #** Maximum speed 50 km/h when running Hostlers end leading. These Locomotives are only permitted to operate on Main Lines from the Driving end, except for Hostlers end movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

### DIESEL ELECTRIC LOCOMOTIVES

#### OPERATED UNDER PACIFIC NATIONAL ACCREDITATION

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Cargill Australia	G	115	128	21.33	9,600	20.700	2240	Nos. 533, 535 Fitted with Super–Series traction equipment.

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### PACIFIC NATIONAL

#### FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
NGCX	Hopper (Grain)	80	17	59		12.300	1600 1435	Yes			
NGDX	Hopper (Starch)	80	17	56		14.300	1600 1435	Yes			
NGGF	Hopper (Sugar)	80	21	55♣		14.276	1435	No	NGTY WTY		<b>Standard Gauge Only</b> ♣ see note on page No. 43
NGIF	Hopper (Grain)	80	20	56		15.056	1435	No	NGWF		<b>Standard Gauge Only</b> Air operated doors
NGKF	Hopper (Grain)	80	21	60		14.276	1435	No	NGTY WTY		<b>Standard Gauge Only</b> Air operated doors
NGPF	Hopper (Grain)	80	21	60		14.276	1435	No	NGTY WTY		Standard Gauge Only. Air operated doors
NGRX	Hopper (Grain)	80	17	56		14.300	1600 1435	Yes			
NGTY	Hopper (Grain)	80	21	55♣		14.276	1435	No			<b>Standard Gauge Only</b> ♣ see note below
NGWF	Hopper (Grain)	80	20	56		15.065	1435	No	NGIF		<b>Standard Gauge Only</b> Air operated doors
NGXH	Hopper (Grain) (three pack)	80	26	50♣		51.820 3 wagons	1435	No	NHXX		<b>Standard Gauge Only.</b> Air operated top & bottom doors ♣ see note below
NLJX	Louvre Van (Pallet loading steel floor)	80	27	49	4000	18.200	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed
NOBX	Open	80	22	54	4000	15.000	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed
NPRF	Bulk Hopper (Cement)	80	20	58		12.600	1435	No			Pneumatic Discharge
NPRY	Bulk Hopper (Cement)	80	20	58		12.600	1435	No			Pneumatic Discharge
NQCX	Container Flat	80	18	58		14.600	1600 1435	Yes		900	Equipped to convey Clip on Refrigerated Units.
NQDX	Container Flat	80	27	49	4000	23.700	1600 1435	Yes		1175	Equipped with chains for steel traffic. May load to 80 tonnes gross at 80 km/h max speed
NQEX	Container Flat	80	27	49	4000	23.700	1600 1435	Yes		1186	May load to 80 tonnes gross at 80 km/h max speed
NQHXX	Container Flat	80	18	62		14.500	1600 1435	Yes		1175	
NQIX	Container Flat	80	18	62		14.600	1600 1435	Yes		1190	
NQOX	Container Flat	80	21	59	4000	20.100	1600 1435	Yes		1118	May load to 80 tonnes gross at 80 km/h max speed
NQRX	Container Flat	80	19	61		17.700	1600 1435	Yes		1181	

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### PACIFIC NATIONAL

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
RBFX	Box Van	80	30	46	4000	23.700	1600 1435	Yes	ABFX		May load to 80 tonnes gross at 80 km/h max speed
RCDX	Coil Steel	80	23	57		14.900	1600 1435	Yes	AKEX		
RCIX	Coil Wire	80	22	58		14.600	1600 1435	Yes	NQIX		
RCJF	Coiled Steel	80	21	55	4000	14.883	1600	No	VQOF	1200	No. 41, 274, 297, 427, 1083, 1107. May load to 80 tonnes gross at 80 km/h max speed
RCRX	Coiled Steel	80	25	51	4000	14.600	1600 1435	Yes	NCRX		May load to 80 tonnes gross at 80 km/h max speed
RFRX	Container Flat Truck	80	27	49	4000	23.700	1600 1435	Yes	AQRX	1186	May load to 80 tonnes gross at 80 km/h max speed
RHJY	Hopper	110	22	54		11.837	1435	No			
RKAX	Flat	80	36.6	115.4		29.200	1600 1435	Yes	AFCX	1230	
RKBX	Slab Steel	80	21.2	54.8	4000	14.900	1600 1435	Yes	AKBX		May load to 80 tonnes gross at 80 km/h max speed
RKCX	Bulk Steel	80	23	53	4000	14.900	1600 1435	Yes	VOBX		May load to 80 tonnes gross at 80 km/h max speed
RKEX	Slab Steel	80	22	58		14.900	1600 1435	Yes	VKEX		
RKFX	Slab Steel	80	26	50	4000	17.900	1600 1435	Yes	AKFX		May load to 80 tonnes gross at 80 km/h max speed
RKLX	Open without Ridge Gear	90	20	56	4000	14.900	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed
RKOX	Bulk Steel	80	27	49	4000	23.700	1600 1435	Yes	AKOX		May load to 80 tonnes gross at 80 km/h max speed
RKPX	Coil Wire / plate steel	80	22	58		18.500	1600 1435	Yes	NFPX		
RKQX	Coil Wire / plate steel	80	20	56	4000	18.000	1600 1435	Yes	NKQX		May load to 80 tonnes gross at 80 km/h max speed
RKSX	Wide Steel Plate	80	25	40		14.600	1600 1435	Yes	NKSX		
RKTX	Steel Strap	80	28	48	4000	23.800	1600 1435	No			May load to 80 tonnes gross at 80 km/h max speed
RKUX	Slab Steel	80	22	54	4000	14.900	1600 1435	Yes	VKOX		May load to 80 tonnes gross at 80 km/h max speed
RKXX	Slab Steel	80	27	49	4000	23.700	1600 1435	Yes	NKDX		May load to 80 tonnes gross at 80 km/h max speed

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### PACIFIC NATIONAL

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
RLEX	Louvre Van	80	26	50	4000	18.100	1600 1435	Yes	VLEX		May load to 80 tonnes gross at 80 km/h max speed. Must not be coupled to fixed wheel base vehicle
RLLX	Louvre Van	80	26	50	4000	18.100	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed. Must not be coupled to fixed wheel base vehicle
RMAX	Car Wagon	80	26	12		23.700	1600 1435	Yes	AMNF		
ROBX	Open	80	23	53	4000	14.900	1600 1435	Yes	VOBX VOCX VOFX		May load to 80 tonnes gross at 80 km/h max speed
ROJX	Open	80	23	53	4000	14.900	1600 1435	Yes	VOBX VOCX VOFX		May load to 80 tonnes gross at 80 km/h max speed
ROKX	Open	80	28	48	4000	23.700	1600 1435	Yes	AOOX		Vehicles numbered over 2000 may load to 80 tonnes gross at 80 km/h max speed
ROOX	Open	80	28	48	4000	23.700	1600 1435	Yes	AOOX		Vehicles numbered over 2000 may load to 80 tonnes gross at 80 km/h max speed
ROSX	Open	80	23	57		14.900	1600 1435	Yes			
ROZX	Shunting Operations	80	17.2	0		11.300	1600 1435	Yes	NOFF	1233	
RQCX	Container Flat	80	20	56	4000	20.100	1600 1435	Yes	AQCX	1111	May load to 80 tonnes gross at 80 km/h max speed
RQDY	Container Flat	100	24	52	4000	25.730	1600 1435	Yes	AQDW	1022	Superfreighter vehicle. Must not be coupled fixed wheel base vehicles. May load to 80 tonnes gross at 80 km/h max speed
RQFX	Container Flat (Skeletal)	80	19	57	4000	20.100	1600 1435	Yes	VQFX	1111	May load to 80 tonnes gross at 80 km/h max speed
RQOX	Container Flat	100	24	52	4000	23.700	1600 1435	Yes	WQBX	1194	May load to 80 tonnes gross at 80 km/h max speed
RRLX	2 slot container flat	80	16	64		14.900	1600 1435	Yes		1220	
TQCY	Container Flat	100	20	56	4000	20.100	1435	No		1111	May operate at the following load/speed combinations: 19.0 tonnes gross axle load at 100 km/h 19.5 tonnes gross axle load at 90 km/h 20.0 tonnes gross axle load at 80 km/h.

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## RAIL OPERATORS ROLLING STOCK

### PACIFIC NATIONAL

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
VBBX	Box Van	80	22	56	1000	13.100	1600 1435	Yes			
VBCW	Box Van	80	35	42		23.500	1600 1435	Yes			Must not be coupled to fixed wheel base vehicles
VECX	Container Flat	80	20	56	4000	20.100	1600 1435	Yes		1111	May load to 80 tonnes gross at 80 km/h max speed Electrically equipped
VEDW	Container Flat	110	23	53	4000	25.700	1600 1435	Yes	VQDW	1022	Superfreighter vehicle. Must not be coupled to fixed wheel base vehicle. May load to 80 tonnes gross at 80 km/h max speed. Electrically equipped
VEKX	Container Flat	80	25	51	4000	23.700	1600 1435	Yes		1194	May load to 80 tonnes gross at 80 km/h max speed Electrically equipped
VEOF	Container Flat	80	18.5	57.5		14.900	1600 1435	Yes	VQOF VQOX	1200	Fitted with 415 volt AC power cables for reefer traffic.
VFCX	Flat with Stanchions	80	23.7	52.3	4000	20.7	1600 1435	Yes	VQLX	1194	May load to 80 tonnes gross at 80 km/h max speed. For Log Traffic only. Not to be loose shunted. When loaded to be Marshalled between wagons with adequate bulkheads.
VFFA	Flat	65	19.1	35		16.100	1600	No			Draft gear limit 3000 tonnes
VFHX	Flat with Bulkhead & Stanchions	80	25.4	50.6	4000	20.700	1600 1435	Yes	VFNX VFPX	1167	May load to 80 tonnes gross at 80 km/h max speed
VFLX	Flat with Bulkheads	80	26	50		20.700	1600 1435	Yes		1257	
VFTX	Flat with Stanchions	80	22.5	53.5	4000	18.100	1600 1435	Yes	VLEX	1180	May load to 80 tonnes gross at 80 km/h max speed. For Log Traffic only. Not to be loose shunted. When loaded to be marshalled between wagons with adequate bulkheads.
VFWX	Flat with Stanchions	80	26	50	4000	23.700	1600 1435	Yes	VQKX VKKX	1194	May load to 80 tonnes gross at 80 km/h max speed. For Log Traffic only. Not to be loose shunted. When loaded to be Marshalled between wagons with adequate bulkheads.
VHAF	Hopper (Grain)	80	21	55	2000	14.900	1600 1435	Yes	VHGF		Fitted with modified braking and air operated discharge doors

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### PACIFIC NATIONAL

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
VHBF	Hopper (Grain)	80	21	46		11.840	1600	No	NGMA		
VHCA	Hopper	65	22	51		11.200	1435	No			
VHEF	Hopper	80	22	54		15.600	1600	No			
VHFF	Hopper (Fertiliser)	80	22	54		14.000	1600	No			
VHFX	Hopper (Fertiliser)	80	22	54		13.200	1600 1435	Yes			
VHGF	Hopper (Grain)	80	17	58	2000	14.900	1600 1435	Yes			Nos. 21–100
VHGF	Hopper (Grain)	80	21	55		14.900	1600 1435	Yes			Nos. 101–637
VHGX	Hopper (Grain)	80	17	58	2000	14.900	1600 1435	Yes			Nos. 1–20
VHGY	Hopper (Grain)	80	21	55	4000	14.900	1435	No	VHGF		<b>Standard Gauge Only.</b> May load to 80 tonnes gross at 80 km/h max speed.
VHHF	Hopper (Grain)	80	23	52		15.500	1600	No			
VHHX	Hopper (Grain)	80	23	52		15.500	1600 1435	Yes			Nos. 813–915
VHJA	Hopper (Gypsum)	65	20	53		11.200	1600	No			
VHJX	Hopper Gypsum	80	22	54		13.200	1600 1435	Yes	VHDX		
VHKY	Hopper (Grain)	115 ♦	24.0	76 ♦		15.498	1435	No			<b>Standard Gauge Only</b> ♦ see note on below
VHLY	Hopper (Grain)	110 ♦	23.6	76 ♦		14.900	1435	No	VHGY		<b>Standard Gauge Only</b> ♦ see note on below
VHNY	Hopper (Grain)	110 ♦	24.0	76 ♦		15.53	1435	No	VHEF		<b>Standard Gauge Only</b> ♦ see note on below
VHQF	Hooper	80	20	56		13.200	1600	No			
VHRF	Hopper (Rice)	80	17	58		14.900	1600	No	VHGF		
VHRX	Hopper (Rice)	80	17	58		14.900	1600 1435	Yes	VHGX		
VHSF	Hopper	80	22	54		13.200	1600	No			
VHWA	Hopper (Ballast)	45 (70 when empty)	15	36	500	9.200	1600	No			
VKEX	Slab Steel	80	22	54	4000	14.900	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed
VKKF	Flat	80	26	50		23.700	1600 1435	Yes			
VKKX	Flat (Steel Traffic)	80	25	51		23.700	1600 1435	Yes			
VLBY	Louvre Van	80	21	35.5	1000	11.900	1600	No			
VLCX	Louvre Van	80	22	41	2000	13.100	1600 1435	Yes			
VLCY	Louvre Van	110	22	50		13.100	1600 1435	Yes	VLCX		Draft Gear Limit of 3000 tonnes for trailing load
VLDX	Louvre Van	80	26	50		16.800	1600 1435	Yes			

## NETWORK SERVICE PLAN



## RAIL OPERATORS ROLLING STOCK

### PACIFIC NATIONAL

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
VLEX	Louvre Van	80	26	50	4000	18.100	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed. Must not be coupled to fixed wheel base vehicles
VLEY	Louvre Van	110	26	50		18.100	1435	Yes	VLEX		Superfreighter vehicle
VLNX	Louvre Van (Newsprint)	80	33	43	4000	18.100	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed. Must not be coupled to fixed wheel base vehicles
VLRX	Louvre Van	80	26	50	4000	18.100	1600 1435	Yes	VLEX VLNX		May load to 80 tonnes gross at 80 km/h. Must not be coupled to fixed wheel base vehicles.
VLVX	Louvre Van	80	22	41		13.100	1600 1435	Yes			
VMAP	Car Wagon	115	30			17.900	1600	No			Conveys 6 cars Motorail Traffic
VMBY	Car Wagon	115	25	15		23.100	1600 1435	Yes			Conveys 8–10 cars
VOBX	Open (without Ridge Gear)	80	23	51	6000	14.900	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed
VOCX	Open (without Ridge Gear)	80	23	53	4000	14.900	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed
VOFX	Open (with fixed ridge gear)	80	23	53	4000	14.900	1600 1435	Yes			May load to 80 tonnes gross at 80 km/h max speed
VOHX	Open (with fixed ridge gear)	80	23	53	4000	14.900	1600 1435	Yes	VOFX		Modified for gypsum traffic. May load to 80 tonnes gross at 80 km/h max speed
VOJF	Open (Gypsum)	80	23	53		14.900	1600	No			Restricted to Gypsum traffic between Cowangie & Geelong Area unless otherwise authorised
VOJX	Open (Gypsum)	80	16	32		14.900	1600 1435	Yes	ROJX		
VOWA	Open	70	16	32		11.700	1600 1435	No			
VPAX	Bulk Cement	80	26	50		14.100	1600 1435	Yes			Pneumatic Discharge
VPBX	Bulk Cement	80	26	50		14.100	1600 1435	Yes	VPCX		Pneumatic Discharge High Pressure Series
VPCX	Bulk Cement	80	26	50		14.100	1600 1435	Yes			Pneumatic Discharge Low Pressure Series
VPFX	Bulk Flour	80	29	45	1000	16.600	1600 1435	Yes			Pneumatic Discharge
VPLX	Bulk Lime	80	29	45	1000	16.600	1600 1435	Yes			Pneumatic Discharge
VQAW	Articulated 3 Pack Flat	110	37.3	115		41.200	1600 1435	Yes		1060	Superfreighter vehicle Not to be loose shunted

## NETWORK SERVICE PLAN



## RAIL OPERATORS ROLLING STOCK

### PACIFIC NATIONAL

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
VQCX	Container Flat	80	20	56	4000	20.100	1600 1435	Yes		1111	May load to 80 tonnes gross at 80 km/h max speed
VQCY	Container Flat	110	20	56	4000	20.100	1435	No	VQCX	1111	May load to 20 tonnes axle load at 80 km/h and 19.5 tonnes axle load of 90 km/h and 19 tonnes axle load at 100 km/h
VQDW	Container Flat	110	23	53	4000	25.700	1600 1435	Yes		1022	Superfreighter vehicle. Must not be coupled to Fixed wheel base vehicles. May load to 80 tonnes gross at 80 km/h max speed
VQGX	Container Flat	80	25	47		23.200	1600 1435	Yes		1194	
VQJY	Container Flat	110	20	56	4000	20.100	1435	No	VQCY	1111	May load to 20 tonnes axle load at 80 km/h and 19.5 tonnes axle load of 90 km/h and 19 tonnes axle load at 100 km/h
VQKX	Container Flat	80	25	51		23.700	1600 1435	Yes		1194	
VQKY	Container Flat	110	25	51	4000	23.700	1600 1435	Yes	VQKX	1194	May load to 20 tonnes axle load at 80 km/h and 19.5 tonnes axle load of 90 km/h and 19 tonnes axle load at 100 km/h
VQLX	Container Flat (Skeletal)	80	22	54	4000	20.700	1600 1435	Yes		1194	May load to 80 tonnes gross at 80 km/h max speed
VQMX	Container Flat	80	20	56	4000	20.100	1600 1435	Yes	VQCX	1111	May load to 80 tonnes gross at 80 km/h max speed
VQMY	Container Flat	110	20	56	4000	20.100	1600 1435	Yes	VQCX	1111	Superfreighter vehicle May load to 80 tonnes gross at 80 km/h max speed
VQOF	Container Flat	80	19.0	57	4000	14.900	1600 1435	Yes		1200	May load to 80 tonnes gross at 80 km/h max speed
VQOX	Open without Ridge Gear	80	21.5	54.5	4000	14.900	1600 1435	Yes		1200	May load to 80 tonnes gross at 80 km/h max speed
VQRF	Container Flat	80	20	56	4000	20.100	1600 1435	Yes		1111	May load to 80 tonnes gross at 80 km/h max speed
VQSW	Container Flat	110	16	60		16.300	1435	Yes		1000	Test Vehicle Only
VTBA	Tank (Bitumen)	70	28.3	45,006 litres		12.500	1600	No			
VTBF	Tank Wagon (Bitumen)	80	27	45,461 litres		12.500	1600	No			
VTBX	Tank (Bitumen)	80	31	45,460		12.500	1600 1435	Yes			

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### PACIFIC NATIONAL

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
VTBY	Tank (Bitumen)	80	31	45,461		12.500	1600	No			
VTGX (Type 1)	Tank Wagon	80	36.6	77,400 litres 38.3 tonnes		16.500	1600 1435	Yes	VTGY		No. 8
VTGX (Type 2)	Tank Wagon	80	34.4	70,900 litres 39.1 tonnes		16.558	1600 1435	Yes	VTGY		Nos. VTGX 7 & 9.
VTQA	Tank (White Spirit)	65 (see note)	28	46,900 litres		14.600	1600	No			VTQA'S Nos. 121, 181, 182, 190, 191, 209, 238, 239, 286, 355, 358, 393, 469, 534, 592, and 595 are authorised to operate at 80 km/h empty and 65 km/h when loaded. Draft Gear Limit 3000 tonnes.
VTQF	Tank	80 (load/ empty)	27	56,400 litres		14.600	1600	No			The following vehicles have a Draft Gear limit of 3000 tonnes: Nos. 84, 86–98, 100–103, 111, 115–122, 131–141, 144, 145, 147–152, 155, 176, 214, 268, 269 and 368.
VTQX	Tank (White Spirit)	80 (load/ empty)	27	54,400 litres		16.400	1600 1435	Yes			
VTQY (Type 1)	Tank	80 (load/ empty)	27	55,917 litres		15.500	1600	No			The following vehicles have a Draft Gear limit of 3000 tonnes: Nos. 84, 86–98, 100–103, 111, 115–122, 131–141, 144, 145, 147–152, 155, 176, 214, 268, 269 and 368.
VTQY (Type 2)	Tank	100 (load/ empty)	27	55,917 litres		15.500	1435	No			Nos 632, 635, 637 & 640 are permitted to run at speeds greater than 100km/h on the ARTC Network on Superfreighter Services.
VTQZ	Tank (White Spirit)	65 # (80 when empty)	28 24.88	39,550 litres		11.800	1600	No			
VTSA	Tank (White Spirit)	80	20.6	32,640 litres		9.246	1600	No	VTQA VTQY		VTSA Nos. 564–572. Only to be used between Shell Corio and Shepparton unless otherwise authorised by V/Line Passenger.
VVBP	Brakevan	90	23	10		11.400	1600	No			
VZAF	Covered Van	80	20	32		12.800	1600	No			
VZGX	Loco. Sand Hopper	80	29	45		16.600	1600 1435	Yes			
VZJF	Open	80	23	53		14.900	1600	No	VOJF		Recorded for Department use
VZKF	Loco. Bogie Transporter	65	18	26		14.500	1600	No	VOJF		Recorded for Department use

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### PACIFIC NATIONAL

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
VZMA	Hopper (Ballast)	45 (70 when empty)	15	36	500	9.200	1600	No			
VZNA	Hopper (Ballast)	70	14	28	500	10.900	1600	No			
VZSF	Auto Sleeper Discharge	80	22	41		13.100	1600	No			
VZTX	Manual Sleeper Discharge	80 (see remarks)	20	36		13.145	1600 1435	Yes			65 km/h when the uneven net load exceeds 12 tonnes
VZWA	Wheel Transporter	70	18	26		14.500	1600	No			
VZZF	Bogie Transport	80	24	52		18.100	1600	No			
XGAY	Hopper (Grain)	80	24	52♣		16.485	1435	No			<b>Standard Gauge Only.</b> Air operated top & bottom doors ♣ see note on below.

**Note ♣** Maximum capacity is restricted due to vehicle not to exceed 19 tonne axle limit

**Note ♦** Between Serviceton and Appleton Dock wagon may load to 92 tonnes gross at 80 km/h.  
Between Appleton Dock and Albury/NSW wagon may load to 80 tonnes gross at 80 km/h.

**Note #** Where a train operates with loaded VTQZ vehicles attached, it may operate at 80 km/h provided the ratio of VTQZ vehicles does not exceed 1 (one) loaded VTQZ vehicles to 4 (four) other vehicles, and provided that the loaded VTQZ vehicle(s) is (are) not marshalled as the last two vehicles of the train and there is no other vehicle in the consist that restricts the train speed to less than 80 km/h.

## FREIGHT VEHICLES

### ON HIRE/LEASE TO PACIFIC NATIONAL

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
CHEY	Ore Hopper Pair	110	≈42.0	≈110.0		≈22.40	1435	No		1120	No. 8002 – 8008, No. 8073-8078, 8088, 8093, 8095, 8096, 8100, 8102-8106 <b>Standard Gauge Only</b> ≈ 2 Permanently coupled hopper wagons. (CFCLA)
CHBY	Hopper Pair	115	≈46.0	≈106.0		≈25.57	1435	No		1100	No. 7050, 7052, 7054, 7067, 7068, 7073, 7074, 7075 <b>Standard Gauge Only</b> ≈ 2 Permanently coupled hopper wagons. (CFCLA)
CQBY	Container Skeletal	80	20	56	4000	19.4	1435	No		1020	<b>Standard Gauge Only.</b> (CFCLA). May load to 80 tonnes gross at 80 km/h max speed
NHBF	Ballast	80	19	61		12.4	1435 1600	Yes			

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### PACIFIC NATIONAL

#### ON HIRE/LEASE TO PACIFIC NATIONAL

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
RQDY	Container Flat	100	23	53	4000	25.730	1600 1435	Yes	AQDW	1022	Superfreighter vehicle. Must not be coupled to fixed wheel base vehicles. May load to 80 tonnes gross at 80 km/h max speed
RQJW	Container Flat	115	27	49	4000	25.560	1600 1435	Yes	NQJW	1024	Superfreighter vehicle. Must not be coupled to fixed wheel base vehicles. May load to 80 tonnes gross at 80 km/h max speed
RQPW	Container Flat	115	25	51	4000	25.560	1600 1435	Yes	NQMW	1024	Superfreighter vehicle. Must not be coupled to fixed wheel base vehicles. May load to 80 tonnes gross at 80 km/h max speed

**Note** ♦ Maximum capacity is restricted due to vehicle not to exceed 19 tonne axle limit

#### OPERATED UNDER PACIFIC NATIONAL ACCREDITATION

#### FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
CHOY	Ballast Hopper Remote Controlled	80	25	51		13.200	1600/ 1435	Yes	VZMF GHMF CHMF		Nos 6016 to 6063 (CFCLA)
CZAY	Ballast Plough	80	35	3		13.100	1600/ 1435	Yes	VLCX		No. 6099 (CFCLA)
WGBY	Covered Hopper	80	≈48.0	≠ ≈136.0		≈32.61	1435	No			No. 1001 – 1084 <b>Standard Gauge Only</b> Air operated hatches & discharged doors. ≈ 2 Permanently coupled grain wagons. (CARGILL)
WGSY	Covered Hopper	80	24.0	52.0		16.468	1600 1435	No			No. 2001 – 2090 Air operated hatches & discharged doors. (CARGILL)

**≠ Note:** Not to exceed loading as per 'Section 2 Maximum Authorised Vehicle Axle Loading Limits, Network Operating Requirements'

## NETWORK SERVICE PLAN



## RAIL OPERATORS ROLLING STOCK

### PACIFIC NATIONAL

#### TRACK RECORDING VEHICLES

#### OPERATE BY PACIFIC NATIONAL ON A 'HOOK & PULL' AGREEMENT

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for bogie exchange	Remarks/Restriction
AK	Track Recording Vehicle	115	46	23.900	1435	No	Nos. 2382, 2383, 2384 Air Conditioned, All Steel body, Auto Coupling and 914t draw gear capacity. Vehicle is used for inspecting and ride recording of <b>Standard Gauge</b> Track

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### QUBE LOGISTICS (RAIL) PTY LTD

#### Diesel Electric Locomotives

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
RL	115	132	22.00	8,000	20.022	2611	SG Only. Nos. 303, 309, 310
48	115	71.4	11.90	2,270	14.760	710	SG Only. Nos. 852, 864, 872, 4814, 4816, 4836, 4828
GML	110	129	21.50	9,500	20.034	2460	SG Only. No 10
80	115	120.8	20.1	5,400	19.000	1605	SG Only. Nos 8030, 8037, 8044.
G	115	128	21.33	9,600	20.700	2240	BG only. Nos 521, 532
442	115	115.0	19.2	5,500	18.700	1600	SG Only No.44202
QBX	115	134	22.3	10,000	22.000	2670	SG Only Nos 001-006

#### ON HIRE/LEASE TO QUBE LOGISTICS (RAIL)

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Chicago Freight Car Leasing Australia	G	115	132	21.80	10,230	20.700	2240	No. 511 , 512, Fitted with Super-Series traction equipment.
	B	115	123	20.50	4,540	18.500	1120	No. 76, 80
	C	115 ♣	134	22.30	10,130	20.600	2240	No. 502, 504, 508, 510. <b>Standard Gauge Only</b>
	GL	112	132	22.00	7,500	18.700	2460	No. 101, 103, 104, 105,106,107,109,110. May operate as per C class locomotive category. <b>Standard Gauge Only</b>
	VL	115	▲127.5	▲21.25	▲4,200	18.300	2460	Nos. 356, 362 ▲May operate as per G class locomotive category with fuel limiting system to 4200 litres
	VL	115	132	22.00	9,220	18.300	2460	No. 351 – 362 May operate as per C class locomotive category. <b>Standard Gauge Only</b>
	CM	115	134.2	22.36	10,000	20.218	2475	3301-3316 <b>Standard Gauge Only</b>
	CF	115	134.0	22.33	7,300	22.000	3355	4409, 4410, 4411, 4412
Steamrail Victoria	S	115 #	123	20.50	6,820	18.600	1340	No. 313
	T	100	69	17.30	3,410	13.400	710	No. 356, 364, 395
Seven O Seven	T	100	69	17.30	3,410	13.400	710	No. 413
Australian Loco Leasing	L	105	134	22.30	4,500	20.220	2240	No. 277 May operate as per 'C' class locomotive category. <b>Standard Gauge Only</b>
Seymour Railway Heritage Centre	X	115	114	19.00	6,820	18.400	1340	Nos. 31 (Series 1)
	S	115 #	123	20.50	6,820	18.600	1340	No. 303 <b>Single end operation only</b>
	B	115	123	20.50	4,540	18.500	1120	No. 74
Gemco Rail	RL	115	132	22.00	8,000	20.022	2611	Nos. 301, 302, 304, 305, 306

**Note #** Maximum speed 50 km/h when running Hostlers end leading. These Locomotives are only permitted to operate on Main Lines from the Driving end, except for Hostlers end movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

**Note ♣** Maximum speed 50 km/h when running long end leading. These Locomotives are only permitted to operate on Main Lines from the Short End/Driver End, except for Long End movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### QUBE LOGISTICS (RAIL) PTY LTD

#### FREIGHT VEHICLES

Class	Description of Vehicle	Max. Speed Km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity Evenly distributed (Tonnes)	Permissible Overload (Kg)	Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht. (mm)	Remarks / Restrictions
SQEF	Container Flat	80	τ 24	τ 52	τ 4000	25.730	1600/ 1435	Yes		1020	τ No. 0001-0050 May load to 80 tonnes gross at 80 km/h max speed.
SQEY	Container Flat	115	23	53	4000	25.730	1435	No		1020	No. 0051-0090 May load to 80 tonnes gross at 80 km/h max speed. <b>Standard Gauge Only</b>

**Note τ May load excess of 80 tonnes under the exception to Permissible Overload Provisions as outlined on page 6 of the Network Operating Requirements.**

#### FREIGHT VEHICLES

##### ON HIRE/LEASE TO QUBE LOGISTICS (RAIL)

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
AQCY	Container Flat	110	22	54		20.093	1435	No	WQCY WQTY	1194	(G&WA) <b>Standard Gauge Only</b>
AFGF	Container Flat	80	16.5	59.5		15.189	1600 1435	Yes	AFCL AZCL RGC AOGL	1170.	No 3, 13, 17-19, 35, 39, 46, 49, 1627, 1630, 1639, 1657, 1665, 1769, (G&W)
AQPY	Container Flat	80	25	51		23.750	1600 1435	Yes	AOOX, AOSX, AOLX, AZOY, AOOY	1245	No 2145, 2308, 2322, 2537, 2571, 2873, 2886, 2916, 2942, 2948, 2982, 3005, 3928, 4009, 4076, 4078, 4088, 4114, 4142, 4148, 4149, 4151, 4179, 4180, (G&W)
BQCX	Flat with Bulkheads	80	26	50		20.700	1600 1435	Yes	CFLX VFLX GFLX SFX	1257	No. 2201, 2202 (CRL)
CFLX	Flat with Bulkheads	80	26	50		20.700	1600 1435	Yes	GFLX VFLX	1257	No. 18, 99 (CFCLA)
CGDY	Covered Hopper	100	22.7	53.3		15.498	1600 1435	Yes			Nos. 4001 to 4042 Ground operated lids & automatic discharge. (CLCFA)
CGSY	Covered Hopper	110	22.5	69.5		15.494	1435	No			Nos. 4501-4542 (CF) Loaded to 80t gross max at Somerton Yard

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### QUBE LOGISTICS (RAIL) PTY LTD

#### ON HIRE/LEASE TO QUBE LOGISTICS (RAIL)

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/Restriction
CQBY	Container Flat	115	20.2	67.8		19.350	1435 1600			1020	(CF) Broad Gauge – 0101V 0102H 0118A 0128X 0131W 0132X
CQCY	Container Flat (can also be used to carry rail)	100	18.0	58		14.691	1600 1435	Yes	NDRF	1130	Nos. 1-10 (CFCLA)
CQIY	Container Flat	80	16.7	≠ 67.3		14.580	1600	No		1195	No. 601-608 (CFCLA)
CQMY	Container Flat	115	22	54		25.730	1435			995	No. 3001 - 3101 <b>Standard Gauge Only</b> (CFCLA)
CQOY	Container Flat	100	25	51	4000	23.750	1600 1435	Yes	AQOY	1194	No. 2197,2219,2393 May load to 80 tonnes at 80 km/h max speed (CFCLA)
CQRX	Container Flat (can also be used to carry rail)	80	25	51	4000	23.700	1600 1435	Yes	VZRF GQRX	1194	No. 302- 306, 308,317 May load to 80 tonnes at 80 km/h max speed (CFCLA)
CQQY	Container Wagon	115	23	53		23.749	1435	No	AOOX	1185	No. 2801-2850 <b>Standard Gauge Only</b> (CFCLA)
CQXY	Paired Container Flat	80	≈ 35.4	≈ ≠ 132.6		≈ 28.251	1600	No		1158	No. 1501-1575 (CFCLA) <b>≈ 2 Permanently coupled container flats</b> <b>± See Note 2</b>
WGSY	Covered Hopper	80	24.0	52.0		16.468	1600 1435	No			No. 2001 – 2090 Air operated hatches & discharged doors. (CARGILL)
ZQKX	Container Flat	80	25	51		23.700	1600 1435	Yes	GQKX VFKX SKX	1194	No. 59 (Masked Fox Leasing P/L)
ZQRX	Container Flat	80	25	51		23.700	1600 1435	Yes	GQKX VFKX SKX	1194	No. 302, 303, 308 (Masked Fox Leasing P/L)
TQXF	Container Flat	80	15.6	60.4		13.155	1600	Yes		1040	10001 - 10020
TQYF	Container Flat	80	18.5	61.5		19.444	1600	Yes		1040	10101 - 10103
PHAY	Bulk Wagon	80	20.0	64.0		20.000	1600	No		N/A	1018, 1025, 1091, 1093, 1111, 1143, 1153, 1205, 1207, 1211, 1214, 1220 (CRLC)

**≠ Note 1:** Not to exceed loading as per 'Section 2 Maximum Authorised Vehicle Axle Loading Limits, Network Operating Requirements'

**± Note 2:** Approved for class 1 and 2 only, and class 3 metropolitan freight lines only.

## NETWORK SERVICE PLAN



## RAIL OPERATORS ROLLING STOCK

### SOUTHERN SHORThAUL RAILROAD

#### Diesel Electric Locomotives

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
B	115	123	20.50	4,540	18.500	1120	No 75
T	100	69	17.30	3,400	13.400	710	Nos. 385, 386

#### OPERATING UNDER SSR ACCREDITATION – TRANSFER MOVEMENTS

Owner	Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
Pacific National	G	115	128	21.80	9,600	20.700	2610	Nos. 522, 524, 525, 527, 528, 529, 531, 536, 539, 541, 542, 543
	BL	115	128	21.30	10,230	20.700	2240	Nos. 29, 32, 34
	XR	115	123	20.50	6,820	18.400	2237	Nos. 550-555, 557-559
	X	115	116	19.30	6,820	18.400	1490	Nos. 41, 43, 44 (Series 2)
	X	115	118	19.70	6,820	18.400	1490	No. 48 (Series 3)
	H	100	81	20.30	3,500	13.400	820	No. 1
	T	100	70	17.50	3,500	13.400	820	No. 400
	P	100	77	19.20	3,410	14.600	710	No. 20

#### FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
BQCX	Flat with Bulkheads	80	26	50		20.700	1600 1435	Yes		1257	No. 2411, 2412, 2413
BODX	Open	80	21	55	4000	14.903	1600 1435	Yes	VOHX, VOFX, ELX	1200	No. 2301, 2450, 2456, 2460 May be load to 80 tonnes gross at 80 km/h max speed.
BQIX	Container Flat	80	19.0	57	4000	14.900	1600 1435	Yes		1200	No. 2451 – 2470. May load to 80 tonnes gross at 80 km/h max speed
BQEW	Articulated 3 Pack Flat	115	38	114		41.226	1600 1435	Yes	RQUY VQEW	1060	No. 2401, 2402 (SSR)
BQHx	Cont Flat	90	17	50		13.900	1600 1435	Yes	ZEBX	1186	No. 2441 - 2450
BQGx	Container Flat	80	25	51		23.7	1600 1435	Yes	ZQKX ZQRX	1194	No. 2431 - 2440
BVDY	Van-Crew/Power	100	23	10		12.600	1600 1435	Yes	ZVDY		No.52
TQXF	Container Flat	80	15.6	60.4		13.155	1600	Yes		1040	10001 – 10020
TQYF	Container Flat	80	18.5	61.5		19.444	1600	Yes		1040	10101 - 10103
BOJX	Open Wagon	80	18.7	45		13.900	1600	No	ZOAF		2471

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### SPENO RAIL MAINTENANCE AUSTRALIA

#### TRACK MACHINE

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)
24 Stone Rail Grinder <input type="checkbox"/>	M30	Seno 'RR24M' Series Rail Grinder	44.9	15	60	60

#### ROAD / RAIL VEHICLES

Registration Number	Plant Number	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks
1DGK-460 <b>α</b>	HRR8-4A	Hino Switch and Utility Grinder	25	22.50	11.0	
1DXN-005 <b>α</b>	FL-17	Hino 1026 Rail Flaw Detection Road/Rail Vehicle	40 Jointed Track 50 Welded Track	9.90	6.721	
1DYU-045 <b>α</b>	N/A	Toyota 76 Series Wagon Hi Rail	40 Jointed Track 50 Welded Track	3.90	5.650	
1DYU-046 <b>α</b>	N/A	Toyota 76 Series Wagon Hi Rail	40 Jointed Track 50 Welded Track	3.90	5.650	
1CLI047 <b>α</b>	HRR8-2A	Hino Rigid Truck, 2007	30	22.5	11.670	
1EZZ828 <b>α</b>	SP10	Toyota Landcruiser 4WD, 2013	30	3.75	6.0	
1CPC115 <b>α</b>	SP06	Toyota Landcruiser 4 WD, 2007	30	3.9	6.1	

**Note**  This machine is not insulated and will operate Track Circuits. The Rules and Operating Procedures (1994) Section 30 Part 14 to Part 29 must be observed during the operation of this machine.

**Note α** – Operates in closed work site only after site specific risk assessment.

## RAIL OPERATORS ROLLING STOCK

### TRANSVOLUTION RAIL

#### Diesel Electric Locomotives

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks Restrictions
G	115	128	21.33	9,600	20.700	2240	Nos 511, 512, 515
L	115	*128	*21.33	5,000	20.220	2260	Nos.257, 277 *May operate as per G class locomotive category with fuel limiting system to 5000 litres <b>Standard Gauge Only</b>
18	105	112	18.33	5,000	17.890	1790	SG Only Nos 1872, 1873

#### FREIGHT VEHICLES

Class	Description of vehicle	Max Speed km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity evenly distributed (Tonnes)	Permissible Overload (Kg)	Max Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht (mm)	Remarks/ Restriction
TFBX	Container flat	80	19	57		15.950	1600 1435	Yes	VFBF	1200	No. 1
TOKX	Open	80	19	57		13.970	1600 1435	Yes	AOKF		
TQGX	Container flat	80	27	49		23.220	1600 1435	Yes	EQGX VOGX	1121	No. 14
PCP	Power Van	115	31	-		12.800	1600 1435	Yes			No.300

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### V/LINE

#### DIESEL ELECTRIC LOCOMOTIVES

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Fuel Capacity (Litres)	Overall Length to nearest 100mm	Kw for Traction	Remarks / Restrictions
A	115	121	20.20	4,540	18.500	1680	Nos. 60, 62, 66, 70
N	115	124	20.60	6,800	20.000	1680	Nos. 452, 454–459, 461, 462, 466, 467, 475 Fitted with auxiliary generator to provide Head End Power to passenger carriages.
	130	128	21.30	6,800	20.000	1680	Nos. 451, 453, 460, 463, 464, 465, 468–474 Fitted with auxiliary generator to provide Head End Power to passenger carriages. Fitted with D77/78 traction motors
P	100	77	19.20	3,410	14.600	710	Nos. 11–18 Fitted with auxiliary generator to provide Head End Power to passenger carriages (H sets only). Able to operate in push/pull mode with H sets.
Y	65	68	17.00	4,550	13.300	450	Nos. 129, 156, 161, 163

#### DIESEL RAIL CARS

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Kw for Traction	Diesel Rail Cars
Sprinter	Self-propelled Passenger vehicle.	130	47	25.900	460	Nos. 7001–7018, 7020–7022 <b>See Note ∞</b>
Vlocity	Self-propelled Passenger vehicle. Operates as a permanently coupled three car unit.	160	171 (Three Car Set)	75.220 (Three Car Set)	1680	DMD No. 1100-1128, 1130-1160 TM No. 1300-1328, 1330-1360 DM No. 1200-1228, 1230-1260 <b>See Note #</b>

**Note #** Where the authorised line speed does not allow for Vlocity Rail Cars to operate greater than 130 Km/h they are to be treated and read as that for Sprinter Rail Cars within the Network Service Plan.

**Note ∞** Sprinter passenger DMUs are restricted to operate in multiple unit on the following V/Line corridors:-  
Werribee – Waurin Ponds, Sunshine – Ballarat - Ararat, Ballarat - Maryborough, North Geelong – Ballarat, Sunbury – Bendigo, North Bendigo Junction – Eaglehawk, North Bendigo Junction – Echuca, Craigieburn – Seymour and Pakenham – Sale.  
A single Sprinter DMU consist is allowed to operate in Station limits and local yard moves..

#### HERITAGE DIESEL RAIL CARS

Class	Description of vehicle	Max Speed km/h	Annual date for Accreditation	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Kw for Traction	Diesel Rail Cars
Diesel Electric Rail Motor £	Self-Propelled Passenger Vehicle with Brakevan.	100	19/01/2017	47	18.300	160	No. 58 Auto coupling (with maximum allowable load on coupling to be 85 tonnes) and 1.5 tonne capacity

**Note £** The maintenance of these vehicles is the responsibility of DIESEL ELECTRIC RAIL MOTOR PRESERVATION ASSOCIATION

#### HERITAGE DIESEL ELECTRIC LOCOMOTIVES

##### On Hire/Lease to V/Line

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Kw for Traction	Remarks / Restrictions
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## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### V/LINE

T ♣	100	69	17.30	2/08/2017	14.700	710	No. 413
B ♠	115	123	20.50	31/10/2014	18.500	1120	No. 74
S ♠	115	123	20.50	31/03/2013	18.600	1340	No.303 Single end operation only
T ♠	100	69	17.30	30/04/2014	14.700	710	No. 320
T ♠	100	69	17.30	30/04/2013	14.600	710	No. 357
T ♠	100	69	17.30	30/06/2017	13.400	710	No. 378
T ▶	100	69	17.30	31/08/2016	13.400	710	No. 356
T ▶	100	69	17.30	14/09/2017	13.400	710	No. 364
T ▶	100	69	17.30	14/09/2017	13.400	710	No. 395
Y ▶	65	68	17.00	31/08/2016	13.300	450	No. 164
Y ♣	65	68	17.00	30/06/2016	13.300	450	No. 127
S ▶	115 #	123	20.50	06/06/2017	18.600	1340	No. 313
X ♠	115	114	19.00	30/09/2016	18.400	1340	No.31
P ♠	100	77	19.20	30/6/2017	14.600	710	No. 22 Fitted with auxiliary generator to provide Head End Power

**Note ♠** Maximum speed 50km/h when running long end leading. This locomotive is permitted to operate on main lines from the short end, except for long end movements between Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

**Note #** Maximum speed 50 km/h when running Hostlers end leading. These Locomotives are only permitted to operate on Main Lines from the Driving end, except for Hostlers end movements to and from Spencer Street and South Dynon Loco, and from Post No. 204 at West Tower to South Dynon and return.

## HERITAGE STEAM LOCOMOTIVES

Class	Max Speed Km/h	Mass Rating (Tns)	Axle Load (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Fuel Capacity (Litres)	Remarks / Restrictions
R ♣	115	191	21.10	20/07/2017	23.500	6 tonnes coal 40,950 litres water	No. 707
J ♠	80	115	15.80	04/10/2007	18.400	7 tonnes coal 19,110 litres water	No. 515
D <sup>3</sup> ▶	95	102	14.00	28/04/2017	18.400	5 tonnes coal 19,110 litres water	No. 639
K ▶	80	106	13.70	12/10/2017 190 14/09/2017 153	18.400	5 tonnes coal 19,110 litres water	No's. 153, 190
R ▶	110	191	21.10	31/08/2016	23.500	Oil fired-10,750litres oil. 40,950 litres water	No. 711
	115	191	21.10	14/09/2017	23.500	6 tonnes coal 40,950 litres water	No. 761
Y ▶	60	75.2	15.60	28/04/2017	14.662	5 tonnes coal 10,000 litres water	No. 112
A <sup>2</sup> ▶	80	123.3	17.8	28/06/2017	19.340	6 tonnes coal 21000 litres water	No.986.

**Note ♣** The maintenance of these vehicles is the responsibility of **SEVEN O SEVEN OPERATIONS**

**Note ♠** The maintenance of these vehicles is the responsibility of **SEYMOUR RAILWAY HERITAGE CENTRE**

**Note ▶** The maintenance of these vehicles is the responsibility of **STEAM RAIL VICTORIA**

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### V/LINE

#### PASSENGER VEHICLES

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Overall Length of Vehicle over Pulling Lines to nearest 100mm	Remarks / Restrictions
ACN	Saloon type with Staff Compartment	115	43	22.800	Nos. 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57. Air-conditioned, all steel body and auto coupling.
BCH (short)	Saloon type with Staff Compartment	115	37	19.300	Nos. 121–135 Air-conditioned, steel body and auto/draw bar coupling.
BCH (long)	Saloon type with Staff Compartment	115	40	23.500	Nos. 132 - 135 Air-conditioned, steel body and auto/draw bar coupling.
BCZ	Saloon type with Staff Compartment	115	48.7	22.800	Nos. 257, 259 Air-conditioned, all steel body and auto coupling. No. 260 stored.
BDN	Saloon type	115	42	22.800	Nos. 6, 21 & 50. Air-conditioned, all steel body and auto coupling.
BH (short)	Saloon type	115	34	19.200	Nos. 141–149 Air-conditioned, steel body and draw bar coupling.
BH (long)	Saloon type	115	39	23.400	Nos. 152, 153 Air-conditioned, steel body and draw bar coupling.
BIH (short)	Saloon type	115	33	19.300	Nos. 182–186, 188-193 Air-conditioned, steel body and draw bar coupling. Without toilet.
BN	Saloon type	115	43	22.800	Nos. 1, 2, 4-5, 7-8, 10-11, 13-14, 16-17, 19, 22-23, 25-26, 28, 55. Air-conditioned, all steel body and auto coupling.
BRN	Saloon type with Buffet	115	44	22.800	Nos. 29, 31, 32, 34, 35, 37, 38, 40, 41, 43, 44, 46, 47, 49, 50, 52, 53, 56. Air-conditioned, all steel body and auto coupling.
BS	Compartment type	115	47	22.800	Nos. 215–219 Air-conditioned, all steel body and auto coupling.
BTH (short)	Saloon type	115	34	19.300	Nos. 161–171, 174, 175 Air-conditioned, steel body and auto/draw bar coupling.
BTH (long)	Saloon type	115	39	23.500	Nos. 172, 173 Air-conditioned, steel body and auto/draw bar coupling.
BTN	Saloon type	115	50	22.800	Nos. 254, 263, 264, 268. Air-conditioned, all steel body and auto coupling.
BZN	Saloon type	115	50	22.800	Nos. 252, 253, 256, 258, 261, 262, 265, 266, 267, 271, 272, 273, 274, 275, 276. Air-conditioned, all steel body and auto coupling.
D	Parcels Van	115	36	12.800	Nos. 302, 322, 324, 335, 339. All steel body, auto coupling and 24.5 tonne capacity.
	Parcels Van	115	36	12.800	Nos. 358 Stored. All steel body, auto coupling and 24.5 tonne capacity.
DN	Parcels Van	115	36	12.800	Nos. 403 Stored. All steel body, auto coupling and 24.5 tonne capacity.
PCJ	Power Van	115	67	23.900	Nos. 491, 492. All steel body, auto coupling, 10 tonne capacity.
PH	Power Van	115	40	12.800	Nos. 451, 452, 453 and 454. All steel body, auto coupling for use with car sets requiring Head End Power.

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### V/LINE

#### HERITAGE PASSENGER VEHICLES

##### On Hire/Lease to V/Line

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Remarks / Restrictions
ACZ ♣	Saloon type with Goods Compartment	115	50	2/08/2017	22.800	No. 255 Air-conditioned, all steel body and auto coupling.
BK ♣	Club/Lounge Carriage	80	39	12/01/2017	19.015	No. 708 All steel body & auto coupling.
BRS ♣	Passenger Carriage	115	48	2/08/2017	22.800	No. 224 Air-conditioned, all steel body and auto coupling.
BS ♣	Passenger Carriage	115	49	2/08/2017 - 205 20/07/2017 - 212	22.800	No. 205, 212 Air-conditioned, all steel body and auto coupling
BZ ♣	Passenger Carriage	115	50	2/08/2017	22.800	No. 270 Air-conditioned, all steel body and auto coupling.
D ♣	Parcels Van	115	36	29/06/2016	12.800	No. 318 All steel body, auto coupling & 24.5 tonne capacity.
JTA ♣	Sleeping Car	115	48.7	30/06/2016	23.826	No. 6 ( <b>Kuldalai</b> ) Air-conditioned, all steel body and auto coupling.
PCP ♣	Power Van	115	31	2/08/2017	12.800	No. 294 All steel body, vestibule west end, auto coupling & 6 tonne capacity.
SJ ♣	Sleeping Car	115	53	2/08/2017	23.850	No. 284 Air-conditioned, all steel body and auto coupling. <b>Not permitted to operate between Sale and Bairnsdale</b>
ABE ♠	Passenger Carriage	80	46	31/10/2013	22.500	No. 5, 16 Wooden body & auto coupling.
AE ♠	Passenger Carriage	80	46	31/10/2011	22.500	No. 2, 30 Wooden body & auto coupling.
AS ♠	Passenger Carriage	115	49	31/10/2016	22.800	No. 3 & 4 Air-conditioned, all steel body and auto coupling.
Avoca ♠	Dining Car	115	75	30/11/2015	23.100	(Old Class RS 235) Air-conditioned, all steel body and auto coupling.
BE ♠	Passenger Carriage	80	46	31/10/2013	22.500	No. 1 & 14 Wooden body & auto coupling.
BS ♠	Passenger Carriage	115	48	31/10/2016	22.800	No. 1 & 3 Air-conditioned, all steel body and auto coupling.
CS ♠	Brake Van	115	56	30/11/2008	18.200	No. 1 All steel body, auto coupling & 20 tonne capacity.
Dining ♠	Dining Car	115	54	30/11/2016	22.800	<b>Murray</b> (Old Class RS 236) Air-conditioned, all steel body and auto coupling
D ♠	Power Van	115	36	07/05/2013	12.800	No. 319 All steel body, auto coupling

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### V/LINE

#### On Hire/Lease to V/Line

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Remarks / Restrictions
Mitta Mitta ♠	Passenger Carriage	115	50	31/10/2016	22.800	<b>Mitta Mitta</b> (Old Class BRS228) Air-conditioned, all steel body and auto coupling.
Parlour ♠	Observation Car with Compartment	115	54	31/10/2016	22.800	<b>Norman</b> (Old Class OS237) Air-conditioned, all steel body and auto coupling.
State ♠	Passenger Carriage	80	50	31/10/2011	22.700	<b>State</b> No. 4 Wooden body & auto coupling. Open platform at one end.
Yarra ♠	Passenger Carriage	80	41	31/10/2014	22.500	<b>Yarra</b> Wooden body & auto coupling. Open platform at Saloon end
VAM ♠	Passenger Carriage	115	51	30/06/2017	23.930	No. 1 Air-conditioned, all steel body and auto coupling.
ABE ▶	Passenger Carriage	80	46	14/09/2017	22.500	No. 3 Wooden body & auto coupling.
				14/09/2017	22.500	No. 7 Wooden body & auto coupling.
AE ▶	Passenger Carriage	80	46	31/08/2016	22.500	No. 12 Wooden body & auto coupling.
AK ▶	Passenger Carriage	115	42	31/08/2016	22.000	No. 500 All steel body & auto coupling.
AS ▶	Passenger Carriage	115	49	29/06/2017	22.800	No. 8 Air-conditioned, all steel body & auto coupling.
				14/09/2017	22.800	No. 11 Air-conditioned, all steel body & auto coupling.
AW ▶	Passenger Carriage	80	32	31/08/2015	17.700	No. 64 Wooden body & auto coupling.
BCE ▶	Passenger/Guards Van	80	43	29/06/2017	22.800	No. 1 Wooden body & auto coupling. Equipped with van goods compartment.
BE ▶	Passenger Carriage	80	46	31/10/2009	22.500	No. 4 Wooden body & auto coupling.
				14/09/2017	22.500	No. 46 Wooden body & auto coupling.
				31/08/2016	22.500	No. 17, 25 Wooden body & auto coupling
				14/09/2017	22.500	No. 38. Wooden body & auto coupling.
BK ▶	Passenger Carriage	115	40	31/08/2016	19.000	No.600 All steel body & auto coupling.
				30/04/2016	19.000	No. 702 All steel body & auto coupling.
BK ▶	Passenger Carriage	115	40	29/06/2017	19.000	No. 700 All steel body & auto coupling.
BRS ▶	Passenger Carriage	115	48	31/08/2016	22.800	No. 14

## NETWORK SERVICE PLAN



## RAIL OPERATORS ROLLING STOCK

### V/LINE

#### On Hire/Lease to V/Line

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Remarks / Restrictions
						Air-conditioned, all steel body & auto coupling.
BRS ▶	Passenger Carriage	115	48	14/09/2017	22.800	No. 9 Air-conditioned, all steel body & auto coupling.
BS ▶	Passenger Carriage	115	49	14/09/2017	22.800	No. 2 Air-conditioned, all steel body & auto coupling.
BW ▶	Passenger Carriage	80	36	31/08/2016 12/10/2017 - 68	20.300	No. 61, 63, 68 Wooden body & auto coupling.
				14/09/2017	20.300	67 Wooden body & auto coupling.
				31/08/2016	20.300	No. 60 Wooden body & auto coupling
				31/05/2013	20.300	No. 80 Wooden body & auto coupling.
BZ ▶	Passenger Carriage	115	50	29/06/2017	22.800	No.269 Air-conditioned, all steel body & auto coupling.
CE ▶	Guards Van	80	46	14/09/2017	19.300	No. 18 Wooden body & auto coupling & 12 tonne capacity.
Coliban ▶	Sleeping Car	80	46	31/08/2016	22.500	<b>Coliban</b> No. 7 Wooden body & auto coupling.
CW ▶	Guards Van	80	36	31/08/2016	16.200	No. 14 Wooden body & auto coupling.
Goulburn ▶	Sleeping Car	80	51	14/09/2017	22.500	<b>Goulburn</b> Wooden body & auto coupling.
Indi	Sleeping Car	80	56	31/08/2016	22.500	<b>Indi</b> No. 2 Air-conditioned, wooden body & auto coupling
Inman ▶	Sleeping Car	80	46	31/08/2016	22.500	<b>Inman</b> No. 8 Wooden body & auto coupling.
LAN ▶	Sleeping Car	115	46	14/09/2017	23.400	No. 2354 Air-conditioned, stainless steel body & auto coupling
Moorabool ▶	Club Car	115	56	14/09/2017	22.800	<b>Moorabool</b> (Old Class RS 234) Air-conditioned, all steel body & auto coupling
PCP ▶	Power Van	115	67	29/06/2017	12.800	No. 292 All steel body, vestibule west end, auto coupling & 6 tonne capacity.
SJ ▶	Sleeping Car	115	53	31/08/2016	23.850	No. 282 Air-conditioned, all steel body and auto coupling. <b>Not permitted to operate between Sale and Bairnsdale</b>
Werribee ▶	Sleeping Car	80	56	31/08/2016	22.500	No. 1 Wooden body & auto coupling.
Macedon ▶	Lounge Car	115	60	30/04/2017	24.766	Pullman Type, Auto coupling

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### V/LINE

#### On Hire/Lease to V/Line

Class	Description of vehicle	Max Speed km/h	Mass Rating (Tns)	Annual date for Accreditation	Overall Length to nearest 100mm	Remarks / Restrictions
						<b>Requires a clearance assessment prior to each path approval on V/Line Network. Only allowed on the V/Line Network with steps removed.</b>
Tambo ▶	Sleeping Car	80	45	30/04/2017	22.587	'E' Type carriage, Auto coupling.
Lowanna ▶	Sitting Car	115	45	30/04/2017	19.015	No. 783. Sth Aust 700 'BK'. Auto coupling. <b>Requires a clearance assessment prior to each path approval on V/Line Network. Only allowed on the V/Line Network with steps removed.</b>

**Note ♣** The maintenance of these vehicles is the responsibility of **SEVEN O SEVEN OPERATIONS**

**Note ♠** The maintenance of these vehicles is the responsibility of **SEYMOUR RAILWAY HERITAGE CENTRE**

**Note ▶** The maintenance of these vehicles is the responsibility of **STEAM RAIL VICTORIA**

## FREIGHT VEHICLES

Class	Description of Vehicle	Max. Speed Km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity Evenly distributed (Tonnes)	Permissible Overload (Kg)	Length over Pulling Lines nearest 100mm	Gauge (mm)	Available for Bogie Exchange	Old Class	Deck Ht. (mm)	Remarks / Restrictions
VHCF	Hopper	65	22.0	80 #	2	11.200	1435	No	VHCA		Wagons to be utilised for weighbridge testing and calibration ONLY. #VHCF x 3 – 80 Tonne #VHCF x 3 – 65 Tonne #VHCF x 2 – 35 Tonne #VHCF x 2 – 22 Tonne

## HERITAGE FREIGHT VEHICLES

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### V/LINE

#### On Hire/Lease to V/Line

Class	Description of Vehicle	Max. Speed Km/h	Max Tare Mass (Tns)	Nominal Carrying Capacity Evenly distributed (Tonnes)	Permissible Overload (Kg)	Length over Pulling Lines nearest 100mm	Gauge (mm)	Annual date for Accreditation	Old Class	Deck Ht. (mm)	Remarks – Restrictions
VOAF ▶	Open	80	18.7	45		13.900	1600	29/06/2017	VOAA		No 9
VZVF ▶	Water Tanker	80	35.0	25.0		20.000	1600	14/09/2017	VZVA		No 1

**Note ♣** The maintenance of these vehicles is the responsibility of **SEVEN O SEVEN OPERATIONS**

**Note ♠** The maintenance of these vehicles is the responsibility of **SEYMOUR RAILWAY HERITAGE CENTRE**

**Note ▶** The maintenance of these vehicles is the responsibility of **STEAM RAIL VICTORIA**

### TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)
Ballast Tamper	RNTM 3001 - 2	Pandrol Jackson 6700 Production/Switch Tamper	14.75	31.0	72	50
Ballast Regulator	RNBR 3001 – 2	Knox Kershaw KBR850 Ballast Regulator	10.87	15.0	72	50
Ballast Regulator	RNBR 3003	Knox Kershaw KBR850 Ballast Regulator with Compactor fitted.	9.30	19.6	72	50
Rail Milling Machine	OLU-001	Linsinger SF02-W-FS road transferable Rail Milling machine	18.30	46.2	40	40

### ROAD / RAIL VEHICLES

Registration Number	Plant / Number	Radio Number	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks
1GJ 2WM	SGRT01	Portable	Isuzu FXZ1500 Rigid Truck	40 Jointed Track 60 Welded Track	23.6	8.76	
1GV 3TS	SGTR02	Portable	Isuzu FXZ1500 Rigid Truck	40 Jointed Track 60 Welded Track	23.6	8.76	
1GV 3UB	SGRT03	Portable	Isuzu FXZ1500 Rigid Truck	40 Jointed Track 60 Welded Track	23.6	8.76	
1HJ 2HG	SGRT04	Portable	Isuzu FXZ1500 Rigid Truck	40 Jointed Track 60 Welded Track	23.6	8.76	
1HJ 3HH	SGRT05	Portable	Isuzu FXZ1500 Rigid Truck	40 Jointed Track 60 Welded Track	23.6	8.76	
1HJ 2IX	SGRT06	Portable	Isuzu FXZ1500 Rigid Truck	40 Jointed Track 60 Welded Track	23.6	8.76	
1HJ 2JD	SGRT07	Portable	Isuzu FXZ1500 Rigid Truck	40 Jointed Track 60 Welded Track	23.6	8.76	
QPI546	PNLR3001	5485	Nissan, Patrol R/R Wagon	40 Jointed Track 60 Welded Track	3.70	5.20	
QVV913	PNLR3006	5228	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
QYI283	PNLR3011	5660	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
QZS769	PNLR3014	5620	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
RDW680	PNLR3015	5212	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
QZT276	PNLR3016	5856	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
URM578	PNLR3017	5555	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
RHJ653	PNLR3018	5556	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
UJM837	PNLR3101	5171	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### V/LINE

Registration Number	Plant / Number	Radio Number	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks
UJM848	PNLR3102	5172	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
UJM849	PNLR3103	5173	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
UKM325	PNLR3104	5174	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
UKM332	PNLR3105	5175	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
UKM333	PNLR3106	5176	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
UKM339	PNLR3107	5177	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
UKM340	PNLR3108	5178	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
UKM345	PNLR3109	5179	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
UKM346	PNLR3110	5180	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
ULQ150	PNLR3111	5181	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
ULQ151	PNLR3112	5182	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
ULQ158	PNLR3113	5183	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
ULQ159	PNLR3114	5184	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
ULQ169	PNLR3115	5185	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
ULQ170	PNLR3116	5186	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
UMU281	PNLR3117	5187	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
UMU283	PNLR3118	5188	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
UMU389	PNLR3119	5189	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
UMU387	PNLR3120	5190	Nissan, Patrol R/R Tray	40 Jointed Track 60 Welded Track	3.70	5.16	
URH541	PNLR3121	1290	Nissan, Patrol R/R Wagon	40 Jointed Track 60 Welded Track	3.70	5.20	
URH542	PNLR3122	1190	Nissan, Patrol R/R Wagon	40 Jointed Track 60 Welded Track	3.70	5.20	
N/A	PNEO3005	N/A	Earthmoving Excavator, Komatsu, Model PW130	30	15.11	7.57	
N/A	PNEO3007	N/A	Earthmoving Excavator, Komatsu, Model PC40	30	4.15	1.88	
N/A	PNEO3008	N/A	Earthmoving Excavator, Komatsu, Model PC40	30	4.15	1.88	
N/A	PNEO3010	N/A	Earthmoving Excavator, Komatsu, Model PC40	30	4.15	1.88	
N/A	PNEO3011	N/A	Earthmoving Excavator, Komatsu, Model PC40	30	4.15	1.88	
1FL 1EI	PNEO3021	N/A	Earthmoving Excavator, Takeuchi, Model TB175W	30	7.95	6.60	
PRH468	PNRM3003	5768	Mitsubishi, Heavy Road Rail, Model No FK415	40 Jointed Track 60 Welded Track	10.50	6.80	
WHX246	PNRM3101	9971	Isuzu, Heavy Road Rail, Model No FRR550	40 Jointed Track 60 Welded Track	9.75	8.87	
WJX212	PNRM3102	9973	Isuzu, Heavy Road Rail, Model No FRR550	40 Jointed Track 60 Welded Track	9.75	8.87	
WJX217	PNRM3103	9982	Isuzu, Heavy Road Rail, Model No FRR550	40 Jointed Track 60 Welded Track	9.75	8.87	
WJH771	PNRM3104	9970	Isuzu, Heavy Road Rail, Model No FRR550	40 Jointed Track 60 Welded Track	9.75	8.87	

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### V/LINE

Registration Number	Plant / Number	Radio Number	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks
WHX227	PNRM3105	9979	Isuzu, Heavy Road Rail, Model No FRR550	40 Jointed Track 60 Welded Track	9.75	8.87	
WOM943	PNRM3106	9986	Isuzu, Heavy Road Rail, Model No FRR550	40 Jointed Track 60 Welded Track	9.75	8.87	
WJX200	PNRM3107	9972	Isuzu, Heavy Road Rail, Model No FRR550	40 Jointed Track 60 Welded Track	9.75	8.87	
WMG512	PNRM3108	9983	Isuzu, Heavy Road Rail, Model No FRR550	40 Jointed Track 60 Welded Track	9.75	8.87	
WJX213	PNRM3109	9978	Isuzu, Heavy Road Rail, Model No FRR550	40 Jointed Track 60 Welded Track	9.75	8.87	
WOM932	PNRM3110	9985	Isuzu, Heavy Road Rail, Model No FRR550	40 Jointed Track 60 Welded Track	9.75	8.87	
WJX206	PNRM3111	9975	Isuzu, Heavy Road Rail, Model No FRR550	40 Jointed Track 60 Welded Track	9.75	8.87	
WMG519	PNRM3112	9976	Isuzu, Heavy Road Rail, Model No FRR550	40 Jointed Track 60 Welded Track	9.75	8.87	
WSX819	PNRM3113	9977	Isuzu, Heavy Road Rail, Model No FRR550	40 Jointed Track 60 Welded Track	9.75	8.87	
WNI695	PNRM3114	9974	Isuzu, Heavy Road Rail, Model No FRR550	40 Jointed Track 60 Welded Track	9.75	8.87	
XMR903	PNWR3101	N/A	Isuzu, Heavy Road Rail, Model No 525	40 Jointed Track 60 Welded Track	9.75	8.87	
XDX270	PNWR3102	N/A	Isuzu, Heavy Road Rail, Model No 525	40 Jointed Track 60 Welded Track	9.75	8.87	
WVW172	PNWR3103	9980	Isuzu, Heavy Road Rail, Model No 525	40 Jointed Track 60 Welded Track	9.75	8.87	
XDX271	PNWR3104	N/A	Isuzu, Heavy Road Rail, Model No 525	40 Jointed Track 60 Welded Track	9.75	8.87	
TUX134 $\alpha$	PNBH3001	N/A	JCB, 3CX	20	8.425	5.62	
TUX135 $\alpha$	PNBH3004	N/A	JCB, 3CX	20	8.425	5.62	
UBI628 $\alpha$	PNBH3006	N/A	JCB, 3CX	20	8.425	5.62	
UBI626 $\alpha$	PNBH3009	N/A	John Deere, 315SE	20	6.670	5.26	
UBI633 $\alpha$	PNBH3012	N/A	JCB, 3CX	20	8.425	5.62	
UBI637 $\alpha$	PNBH3013	N/A	JCB, 3CX	20	8.425	5.62	
UBI640 $\alpha$	PNBH3015	N/A	CASE, 580 Super M	20	7.958	6.95	
UDC665 $\alpha$	PNLD3001	N/A	JCB 416 Loader	20	10.158	6.09	
1AA5MX $\alpha$	SGBH01	N/A	JCB, 3CX	20	8.425	5.62	
1AA5NJ $\alpha$	SGBH02	N/A	JCB, 3CX	20	8.425	5.62	
1DA9ZO $\alpha$	SGBH04	N/A	JCB, 3CX	20	8.425	5.62	
N/A $\alpha$	PNRL3001	N/A	Harrybilt Rail Lifter	5	1.23	1.9	
N/A $\alpha$	PNRL3002	N/A	Harrybilt Rail Lifter	5	1.23	1.9	
N/A $\alpha \chi$	PNRMTR02	N/A	Harrybilt Rail Trailer	20	2.44	2.55	
TBA $\alpha$	SGEO06	N/A	Caterpillar 314D CR Excavator	15	21.46	8.175	

Note  $\alpha$  – Operates in closed work site only after site specific risk assessment.

Note  $\chi$  - Trailer must be towed only by compatible excavator, with mass of trailer not greater than that of excavator.

### On Hire/Lease to V/Line

#### ROAD / RAIL VEHICLES

Registration Number	Plant / Number	Radio Number	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks
ZUE 311	S/N 2104877	Portable	Hino 500FD Euro 5 Crew Cab	30	7.1	8.41	Geomatic Technologies

## NETWORK SERVICE PLAN



## RAIL OPERATORS ROLLING STOCK

### V/LINE

Registration Number	Plant / Number	Radio Number	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks
1BYP767	N/A	5382	ISUZU tray truck fitted with weed spray	40 Jointed Track 60 Welded Track	11.990	9.30	GTE Trackspray
YMH188	N/A	5883	Toyota land cruiser tray truck fitted with weed spray	40 Jointed Track 60 Welded Track	3.900	5.60	GTE Trackspray
1DVG967	N/A	5384	UD Truck fitted with weed spray	40 Jointed Track 60 Welded Track	26.000	8.10	GTE Trackspray
1DXE-948(WA)	N/A	Portable	IVECO Daily 4x4 fitted with weed spray	30	5.200	6.30	GTE Trackspray
1EVG-278	N/A	Portable	IVECO Daily 4x4 fitted with weed spray	30	5.200	6.30	GTE Trackspray
1AZJ-537 (WA)	N/A	Portable	Isuzu NPS fitted with weed spay	30	6.000	6.80	GTE Trackspray
YBI-522 $\alpha\beta$	N/A	N/A	Mitsubishi Canter, Road Rail Tray Truck	20	6.000	6.64	GTE Welding Australia. Approval expires: 12/05/16
ZHH 340 $\alpha$	N/A	N/A	Isuzu, Heavy Road Rail, Model No. FFS550	30	10.000	8.40	Nash Rail
ZHH 348 $\alpha$	N/A	N/A	Isuzu, Heavy Road Rail, Model No. FFS550	20	10.0	8.4	Nash Rail
YTO-310 $\alpha$	N/A	N/A	Isuzu, Heavy Road Rail, Model No. 450	30	8.700	8.140	Nash Rail
YUV 817 $\alpha$	N/A	N/A	Isuzu, Heavy Road Rail, Model No. 450	30	8.700	8.140	Nash Rail
YBI-521 $\alpha$	N/A	N/A	Mitsubishi Canter, Road Rail Tray Truck	20	2.118	6.490	Nash Rail
ZWJ-256 $\alpha$	N/A	N/A	Isuzu NPR, Road Rail Tray Truck	20	7.500	7.20	Nash Rail
UOY 882 $\alpha$	N/A	N/A	Isuzu NPR, Road Rail Tray Truck	20	7.500	7.170	Nash Rail
1BH 5EV $\alpha\beta$	W&C 17	N/A	Case WX185 Hi-Rail Excavator	5	20.440	8.520	Wazza & Co
YES 405 $\alpha\beta$	N/A	N/A	Volvo EW 160C Hirail Excavator	20	16.5	7.42	Wazza & Co
N/A $\chi$	W&C 12	N/A	Harrybilt sleeper trailer	20	11.0	6.06	Wazza & Co
TVU 241 $\alpha\beta$	N/A	N/A	Isuzu 450NQR Rigid Truck	40	8.7	7.0	Land Management Services
WYZ 584 $\alpha$	N/A	N/A	Freightliner CL112, Hi Rail Tip Truck	30	24.000	7.680	P & C Excavations
WQL 680 $\alpha$	N/A	N/A	Freightliner CL112, Hi Rail Tip Truck	30	24.000	7.680	P & C Excavations
N/A $\alpha$	28794	N/A	Komatsu PC138US Hi Rail Excavator	15	17.150	7.98	P & C Excavations
N/A $\alpha$	26737	N/A	Komatsu PC138US Hi Rail Excavator	15	17.150	7.98	P & C Excavations
N/A $\alpha$	6185	N/A	Komatsu PC138US Hi Rail Excavator	15	17.150	7.98	P & C Excavations
QXF-336 $\alpha$	N/A	N/A	Freightliner CL112, 3 Axle tipper, HT2, High Rail Tip Truck.	30	24.0	7.68	P & C Excavations
WMN-677 $\alpha$	195	N/A	CAT M316D, High rail Excavator.	20	16.0	8.55	P & C Excavations
N/A $\alpha$	N/A	N/A	Kobelco SK40SR-3, High rail Excavator	20	7.0	5.0	P & C Excavations
N/A $\alpha$	N/A	N/A	Kobelco SK70SR, High rail Excavator	20	12.0	6.92	P & C Excavations
WMN-676 $\alpha$	N/A	N/A	CAT M316D, High rail Excavator	20	16.0	8.55	P & C Excavations
N/A $\alpha$	1023	N/A	Komatsu PC138US, High Rail Excavator	15	16.5	7.98	P & C Excavations
N/A $\alpha$	27555	N/A	Komatsu PC138US, High Rail Excavator	15	19	7.98	P & C Excavations
N/A $\alpha$	28562	N/A	Komatsu PC138US, High Rail Excavator	15	16.5	7.98	P & C Excavations

## NETWORK SERVICE PLAN



## RAIL OPERATORS ROLLING STOCK

### V/LINE

Registration Number	Plant / Number	Radio Number	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks
N/A <sup>α</sup>	2309	N/A	Komatsu PC138US, High Rail Excavator	15	16.5	7.98	P & C Excavations
YIY 749 <sup>αβ</sup>	N40310438	N/A	Hyundai 140W-7 Hirail Excavator	15	17.0	8.17	P & C Excavations
N/A <sup>χ</sup>	HRT-031	N/A	Harrybilt sleeper trailer	20	15.0	5.2	P & C Excavations
39824-D <sup>α</sup>	MTM 7412015	N/A	Ausa D1000 APG, Dump Truck	20	15.07	4.99	Jordan Rail
1AQ-2TF <sup>α</sup>	801	N/A	Hitachi 170W, Excavator	15	19.5	8.69	Jordan Rail
N/A <sup>α</sup>	MTM 7402014	N/A	Hyundai 140 W-9, High rail Excavator	15	19.0	6.05	Jordan Rail
1DT-4UO <sup>α</sup>	404	N/A	Kubota RTV-900, High rail Inspection unit	20	1.63	3.5	Jordan Rail
N/A <sup>α</sup>	30219	N/A	Komatsu PC138US, High rail Excavator	15	19.0	8.05	Jordan Rail
39825-D <sup>α</sup>	MTM 746 2015	N/A	Ausa D1000 APG, Dump Truck	20	15.07	4.99	Jordan Rail
YTO-310 <sup>α</sup>	No.7	N/A	Isuzu 450	30	8.70	8.14	Nash Rail
ZAZ-406 <sup>αβ</sup>	No.9	N/A	Mack Trident Tipper, High Rail Excavator	20	22.50	10.3	Barberosa Pty Ltd
UUJ-459 <sup>αβ</sup>	N/A	N/A	Takeuchi TB175W, High Rail Excavator	20	7.815	6.68	Fitt Excavations
XDP 055 <sup>αβ</sup>	N/A	N/A	Takeuchi TB175W excavator	20	10.104	6.68	Fitt Excavations
YPN-356 <sup>αβ</sup>	N/A	N/A	International 1800C, High Rail Tip Truck	20	13.90	6.55	Fitt Excavations
YLI-763 <sup>αβ</sup>	Cat 6	N/A	CAT M316 C, Excavator	20	18.8	8.55	Howell Rail
N/A <sup>αβ</sup>	No 3	N/A	Hyundai 140W, High Rail Excavator	20	17.0	6.50	Barberosa Pty Ltd
1HM 4AR <sup>α</sup>	N/A	N/A	Hyundai 210W, High Rail Excavator	20	21.0	9.55	Barberosa Pty Ltd
1GN 4WX <sup>αβ</sup>	No.23	N/A	Hyundai 140W Excavator	20	17.0	8.17	Barberosa Pty Ltd
YFM 591 <sup>α</sup>	N/A	N/A	International 1800C Hirail Tip Truck	20	24.0	7.5	Barberosa Pty Ltd
XZW 558 <sup>α</sup>	Unit 15	N/A	Isuzu FVZ1400 EWP	25 15 - Worksite	24.0	8.2	Rail Maintenance Services
XHQ 458 <sup>α</sup>	Unit 17	N/A	Hino NDD Truck	25 10 - Worksite	13.6	7.04	Rail Maintenance Services
XQD 488 <sup>α</sup>	Unit 20	N/A	Mitsubishi Canter Spray Truck	20 15 - Worksite	6.0	6.68	Rail Maintenance Services
YQS 108	Unit 25	N/A	Mitsubishi Canter, Tray Truck 4WD	20	6.0	6.78	Rail Maintenance Services
ZET 821 <sup>α</sup>	Unit 28	N/A	Isuzu FV2 NDD Truck	20 15 - Worksite	24.0	11.5	Rail Maintenance Services
XAU 218 <sup>αβ</sup>	Unit 40	N/A	JCB 3CX Backhoe	15	8.07	7.05	Rail Maintenance Services
N/A <sup>αβ</sup>	Unit 57	N/A	Hitachi 2x135 tracked excavator	20	17.76	7.54	Rail Maintenance Services
N/A <sup>α</sup>	Unit 77	N/A	Komatsu PC138 Excavator	20	17.3	4.2	Rail Maintenance Services
N/A <sup>α</sup>	Unit 78	N/A	Komatsu PC138 Excavator	20	17.3	4.2	Rail Maintenance Services
N/A <sup>α</sup>	Unit 79	N/A	Komatsu PC138 Excavator	20	17.3	4.2	Rail Maintenance Services
ZDX 198 <sup>α</sup>	Unit 95	N/A	Isuzu FVR950 EWP	20 15 - Worksite	16.0	8.56	Rail Maintenance Services
YNQ 498 <sup>α</sup>	Unit 101	N/A	International Acco 2350G EWP	15	24.0	9.47	Rail Maintenance Services
YKW 502 <sup>α</sup>	Unit 103	N/A	Isuzu, Tipper/Crane	15	15.0	8.72	Rail Maintenance Services
SWD 787 <sup>αβ</sup>	Unit 115	N/A	Scania Truck – Trout River	20 15 - Worksite	33.2	8.68	Rail Maintenance Services

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### V/LINE

Registration Number	Plant / Number	Radio Number	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks
N/A <b>αβ</b>	Unit 118	N/A	Thwaites Dump Truck	15	11.0	5.06	Rail Maintenance Services
ZNV 608	Unit 126	N/A	Mitsubishi Canter, Crane Truck 4WD	30	5.5	6.6	Rail Maintenance Services
ZSZ 228 <b>α</b>	Unit 137	N/A	Isuzu FVZ1400 Crane Truck	25 15 - Worksite	24.0	11.81	Rail Maintenance Services
ZUN 585 <b>β</b>	Unit 140	N/A	Hino, 3 way tipper	25 15 - Worksite	12.7	7.5	Rail Maintenance Services
ZWL-508 <b>α</b>	Unit 141	N/A	Isuzu FTS FY750, Crane/Tray Truck	20	13.0	8.77	Rail Maintenance Services
N/A <b>αβ</b>	Unit 142	N/A	Komatsu 160-7 wheeled excavator	20	19.2	6.25	Rail Maintenance Services
ZYG 285	Unit 144	N/A	Nissan Patrol, 4wd	30	3.7	5.250	Rail Maintenance Services
N/A <b>α</b>	Unit 148	N/A	Yanmar Excavator	20 5 - Working	8.8	3.75	Rail Maintenance Services
1AL-91P	Unit 153	N/A	Ford Ranger, Ute	15	3.012	5.47	Rail Maintenance Services
1AB 8AB <b>αβ</b>	Unit 156	N/A	JCB 3CX Backhoe	15	8.07	7.24	Rail Maintenance Services
1AT 4HG	Unit 159	N/A	Ford Ranger, 4wd	30	3.012	5.450	Rail Maintenance Services
1AY 5VA <b>α</b>	Unit 162	N/A	Isuzu FY750, Crane/Tray Truck	20	13.0	8.82	Rail Maintenance Services
1CX 1PW <b>α</b>	Unit 171	N/A	Hino, 3 way tipper	15	15.0	7.4	Rail Maintenance Services
1EW 6FX <b>α</b>	Unit 177	N/A	Hino FM1J 3-way tipper	25	26.0	8.04	Rail Maintenance Services
1EV 6LM	Unit 178	N/A	Isuzu Ute	25 15 - Worksite	2.9	5.52	Rail Maintenance Services
1HC 1AP <b>α</b>	Unit 191	N/A	Isuzu FTS800 Crane Truck	25	13.5	8.02	Rail Maintenance Services
1HC 5XK	Unit 193	N/A	Ford Ranger 4WD	25 15 – Worksite	3.012	5.47	Rail Maintenance Services
1HR 4DF	Unit 194	N/A	Isuzu FM FTS Crane Truck	25	13.5	8.12	Rail Maintenance Services
1HX 9SS	Unit 196	Portable	Toyota Landcruiser, Hirail Ute	25	3.51	5.6	Rail Maintenance Services
N/A <b>χ</b>	E013	N/A	Rail trolley trailer	20	2.84	5.0	Rail Maintenance Services
N/A <b>χ</b>	E014	N/A	Rail trolley trailer	20	2.84	5.0	Rail Maintenance Services
WZN-425 <b>α</b>	N/A	N/A	CAT M316D, High Rail Excavator	20	19.0	8.550	P & C Excavations
1EZ-5FF <b>α</b>	N/A	N/A	Toyota Landcruiser, High Rail Ute	20	3.9	5.30	Nugroup
1FF-1PA <b>α</b>	N/A	N/A	Toyota Landcruiser, High Rail Ute	20	3.9	5.30	Nugroup
1EW-1OG <b>αβ</b>	N/A	N/A	Isuzu 2 Axle tray	20	6.0	6.5	Nugroup
1DG-4TL <b>αβ</b>	N/A	N/A	Nissan Patrol, Hi-Rail Ute	20	4.0	5.86	Nugroup
1DM-4IB <b>αβ</b>	N/A	N/A	Nissan Patrol, Hi-Rail Ute	20	3.9	5.86	Nugroup
N/A <b>α</b>	EX16	N/A	Kubota KX057-4, High Rail Excavator	18	6.795	5.520	Mitchco Pty Ltd
N/A <b>α</b>	SD3	N/A	Thwaites MACH 664, High Rail Dumper	20	10.34	5.082	Mitchco Pty Ltd
ZDL-422 <b>α</b>	N/A	N/A	Volvo, Rigid Truck	30	12.040	8.110	Greg's Digging
WWC 908 <b>αβ</b>	N/A	N/A	CAT M313D wheeled excavator	15	15.19	7.06	Greg's Digging
ZFK 968 <b>αβ</b>	BH002	N/A	CAT 432F backhoe	15	9.0	5.8	Greg's Digging
1BW-6FX <b>α</b>	MR-24	N/A	Hyundai Robex 145 CR-9, Excavator	20	19.0	7.40	Montgomery Construction and Rail

## NETWORK SERVICE PLAN



## RAIL OPERATORS ROLLING STOCK

### V/LINE

Registration Number	Plant / Number	Radio Number	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks
02323C <b>α</b>	MC-65	N/A	Hyundai Robex 145 CR-9, Excavator	20	18.0	7.40	Montgomery Construction and Rail
RHN-165 <b>α</b>	N/A	N/A	Isuzu FTS, Crane Truck	20	6.78	8.21	Montgomery Construction and Rail
XJX-990 <b>α</b>	N/A	N/A	John Deere 315 SJ, Back Hoe	20	7.78	8.52	Montgomery Construction and Rail
XJX-991 <b>α</b>	N/A	N/A	John Deere 315 SJ, Back Hoe	20	7.78	8.52	Montgomery Construction and Rail
XLN-559 <b>α</b>	N/A	N/A	UD GW470, 3 axle tipper truck	20	10.2	8.52	Montgomery Construction and Rail
N/A <b>α χ</b>	MW06	N/A	Harrybilt TRR-002A Sleeper trolley	20	15.0	4.0	Montgomery Construction and Rail
N/A <b>α χ</b>	MW07	N/A	Harrybilt TRR-002A Sleeper trolley	20	15.0	4.0	Montgomery Construction and Rail
N/A <b>α χ</b>	MW24	N/A	Harrybilt TRR—0018 Sleeper trolley	20	15.0	4.0	Montgomery Construction and Rail
N/A <b>α</b>	HR1	N/A	Cat M316, High Rail Excavator	15	22.2	8.55	RJ Rail Pty Ltd
WQO 096 <b>α</b>	4	N/A	Isuzu 1400 HMF 2820KS, Hi Rail Crane Truck	25 forward 5 reverse	24.0	10.0	Nick DeMenna
XAL-241 <b>α</b>	N/A	N/A	UD GW470 3 Axle Tipper	20	26.0	8.52	Howell Rail Axle 1 must have new Flexitors fitted every 12 months
N/A <b>α</b>	LB 16	N/A	Liebherr A900 CZW, Excavator	20	20.0	8.8	Howell Rail
N/A <b>α</b>	LB 15	N/A	Liebherr A900 CZW, Excavator	20	20.0	8.8	Howell Rail
ZKO 527 <b>α β</b>	LB14	N/A	Liebherr A900 CZW, Excavator	20	21.5	8.8	Howell Rail
ZKO 526 <b>α β</b>	LB10	N/A	Liebherr A900 CZW, Excavator	20	21.5	8.8	Howell Rail
76108-C <b>α β</b>	N/A	N/A	Ddieci Pegasus, High Rail Telehandler	20	20.38	7.5	Terranova Plant Hire Pty Ltd
1EO-1VX <b>α</b>	N/A	N/A	Mercedes Benz, Actros 2632, Rigid Tip Truck	30	26.0	7.4	Gellie's Earthmoving
1GW 3PW <b>α β</b>	N/A	N/A	Hitachi ZX 170W excavator	20	20.1	8.8	Gellie's Earthmoving
ZZL 234 <b>α β</b>	Unit 5	N/A	Hitachi 2X 140W excavator	15	18.0	7.62	Tenex Rail & Excavations
UUJ 053	RT18	N/A	Toyota Landcruiser 4WD – Ultrasonic test vehicle	40 20 – Worksite	3.9	5.3	Rail Technology International
1AXX 176	RT07	N/A	Toyota Landcruiser 4WD – Ultrasonic test vehicle	20	3.9	5.3	Rail Technology International
XNM 457 <b>α β</b>	RT026	N/A	Toyota Landcruiser 4WD – Ultrasonic test vehicle	20	3.8	5.3	Rail Technology International
YDR 071 <b>β</b>	N/A	Portable	Mitsubishi Triton hirail utility	40 Jointed Track 60 Welded Track	2.93	5.6	Ontrack Services
WNO 330 <b>α β</b>	N/A	N/A	Hino Truck Altec EWP	15	8.5	7.97	Evergreen Contractors <b>Expires 2/3/2017</b>
YSJ 501 <b>α</b>	N/A	N/A	Isuzu FVZ1400 - Tray with EWP	30	19.4	10.35	Evergreen Contractors
Q82499 <b>α β χ</b>	N/A	N/A	Bandit Industries XP90 Trailer – Wood Chipper	25	2.18	4.3	Evergreen Contractors
Manwal <b>α</b>	N/A	N/A	GMC3500 Tip Truck	25	3.08	5.9	Evergreen Contractors
N/A <b>α</b>	4619	N/A	Komatsu PC138US Excavator	15	19.0	8.05	Geoff Brereton Engineering

## NETWORK SERVICE PLAN

## RAIL OPERATORS ROLLING STOCK

### V/LINE

Registration Number	Plant / Number	Radio Number	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks
N/A <b>α</b>	4633	N/A	Komatsu PC138US Excavator	15	19.0	8.05	Geoff Brereton Engineering
71971C <b>α</b>	3	N/A	Dieci Pegasus 40:18 Telehandler	10	17.0	7.28	DPW Plant Hire
18579D <b>α</b>	7	N/A	Sennebogen 608 Multi Crane	15	28.9	7.85	DPW Plant Hire
N/A <b>αχ</b>	RT01	N/A	Towable trailer	15	3.3	5.1	DPW Plant Hire
N/A <b>αχ</b>	RT02	N/A	Towable trailer	15	3.3	5.1	DPW Plant Hire
YVQ 646 <b>α</b>	N/A	N/A	Isuzu 2 Axle Tray Truck	20	8.7	8.6	McLeod Rail
WWI 115 <b>α</b>	N/A	N/A	Mitsubishi Triton Utility	20	2.72	5.58	McLeod Rail
ZOV 965 <b>α</b>	N/A	N/A	Isuzu 2 Axle Tray Truck	20	6.4	8.05	McLeod Rail
4653 <b>αβ</b>	EX006	N/A	Komatsu PC138US Excavator	15	19.0	8.05	McLeod Rail

**Note α – Operates in closed work site only after site specific risk assessment.**

**Note β – Not to be operated in Tunnels.**

**Note χ - Trailer must be towed only by compatible excavator, with mass of trailer not greater than that of excavator.**