

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.

NETWORK SERVICE PLAN



OPERATING REQUIREMENTS

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.

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

DOWNER EDI WORKS.

TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)
Ballast Tamper	TA001,002,004,005	Pandrol Jackson 6700s Ballast Tamper	13.3	31.8	72	50
Ballast Regulator	BR001,002,003,005,006	Knox Kershaw KBR850 Ballast Regulator	11.2	16	72	50
Ballast Compactor	CO 001	Plasser M393 Ballast Compactor	8.6	20.2	30	30
Sleeper Inserter	SI 001	Nordic Tripp Tie Inserter	16.3	10.7	30	30

RAIL OPERATORS ROLLING STOCK

EL ZORRO TRANSPORT 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
S	115 ●	123	20.5	6,825	18.600	1340	No.302
W	35 ♣	47.5	15.83	1,550	9.200	450	No. 241, 244
T	100	69	17.3	3,410	13.400	710	No. 386
Y	65	68	17.0	4,550	13.300	450	No. 145

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 ♣ Non Multi Unit

DIESEL ELECTRIC LOCOMOTIVES

ON HIRE/LEASE TO EL ZORRO TRANSPORT 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
Australian Loco Leasing	L	105	134	22.3	4,500	20.220	2240	No. 277 May operate as per 'C' class locomotive category. Standard Gauge Only
Australian Wheat Board	G	115	128	21.82	9,600	20.700	2240	Nos. 521, 532, 535. Fitted with Super-Series traction equipment. Standard Gauge Only
	G	115	128	21.82	9,600	20.700	2240	Nos. 533 Fitted with Super-Series traction equipment.
Chicago Freight Car Leasing Australia	442	115	113	18.800	5,540	18.669	1490	No. 09. Maximum speeds applicable to 'G' class locomotives. May haul loads applicable to 'X' class locomotives for loads. Standard Gauge Only
	B	115	123	20.50	4,540	18.500	1120	No. 65, 76, 80
	C	115 ▲	134	22.30	10,130	20.600	2240	No. 502-505, 507, 508. Standard Gauge Only
	EL	115	114	19.0	7,500	20.500	2380	Nos. 51–58, 60–64 May operate as per X class locomotives. Single ended operation only. Standard Gauge Only
	G	115	132	21.8	10,230	20.700	2240	Nos. 511, 512 & 515. Fitted with Super-Series traction equipment. Standard Gauge Only
	S	115 ●	123	20.50	6,825	18.600	1340	No.300, 311
	T	100	69	17.30	3,410	13.400	710	No. 369, 373, 376, 377. 385, 387
	TL	100	72	18.00	3505	14.480	985	No. 152 – 155 May operate as per T class locomotive category. Standard Gauge Only
	VL	115	132	22.00	9,220	18.300	2460	No. 351 – 362 May operate as per C class locomotive category. Standard Gauge Only
	Diesel Electric Rail Motor Preservation Association of Victoria	Y	65	68	17.00	4,550	13.300	450
Genesee & Wyoming Australia	GM (Type 2)	115 ●	116	19.30	6,825	17.900	1340	Nos. 42 Single ended. Standard Gauge Only.

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

EL ZORRO TRANSPORT PTY LTD

ON HIRE/LEASE TO EL ZORRO TRANSPORT 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
June Railways Workshop	48	100	75.2	12.5	2270	14.760	780	No. 14, 16, 36 May operate as per T class locomotive category. Standard Gauge Only
	830	100	71.4	11.9	2270	14.800	710	No. 852 May operate as per T class locomotive category. Standard Gauge Only
Gemco Rail	442s	115	115	19.100	5,540	18.669	1491	No. 02, 06 Maximum speeds applicable to 'G' class locomotives. May haul loads applicable to 'X' class locomotives for loads. Standard Gauge Only
Rail Power	S	115 ●	123	20.50	6,825	18.600	1340	No.312
Seven O Seven	T	100	69	17.30	3,410	14.600	710	No. 413
Seymour Railway Heritage Centre	B	115 ▲	123	20.50	4,540	18.500	1120	No. 74
	C	115 ▲	134	22.30	10,130	20.600	2240	No. 501 Standard Gauge Only ■
	GM	115 ●	123	20.50	6,825	18.600	1340	No. 36 Single end operation only Standard Gauge Only
	S	115 ●	123	20.50	6,825	18.600	1340	No. 303
	T	100	69	17.30	3,410	14.700	710	No. 320, 357, 378
	T	100	69	17.30	3,410	14.700	710	No. 341 Not available as Lead Unit
	X	115	114	19.0	6,820	18.400	1340	Nos. 31 (Series 1)
Specialised Container Transport	J	100	67	16.75	2850	13.400	485	No. 102 – 103 May operate as per Y class locomotive category. Standard Gauge Only ■
Steam Rail Victoria	T	100	69	17.30	3,410	13.400	710	No. 356, 364, 395
South Gippsland Heritage Society	T	100	69	17.30	3,410	14.700	710	No. 342
Victorian Goldfields Railway	T	100	69	17.30	3,410	14.700	710	No. 333 Not available as Lead Unit

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 50km/h when running long end leading

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
BRJ	Passenger carriage	115	48.7	23.826	No.222 (AEC222) & 927 (DF927) All steel body, automatic couplings. Not permitted to operate between Watergardens and Bendigo.
BRG	Passenger carriage	115	48.7	23.826	No's.168, 170, 171,173, 175 & 969. Not permitted to operate between Watergardens and Bendigo.
DF	Passenger carriage	115	48.7	23.826	No.222 Not permitted to operate between Watergardens and Bendigo.

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
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NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

EL ZORRO TRANSPORT PTY LTD

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
KMQ	Con. Flat (fixed wheel)	65	9	21		8.700	1600	No		1186	No. 133
VFGA	Flat wagon	70	33	58.5		12.020	1600	No		1200	No.1
VZVA	Flat, sleepers	70	17	63		14.00	1600/ 1435	Yes		1186	Nos. 3, 4 (can be fitted with tank 27,500lt cap.)
ZDXF	Flat Concrete Sleepers or Rail Transporter	80	19	55		15.000	1600/ 1435	Yes	NOBX/ NDBX	1186	Nos. 1–24
ZEBX	H.E.P Cont flat Rail Transporter	90	17	52		13.900	1600/ 1435	Yes	VFFX	1186	Nos. 1–16
ZFSX	Con. Flat auto sleeper discharge	80	22	41		13.100	1600/ 1435	Yes	VZSX	1186	No. 12
ZGBY	Hopper (Grain)	80	24	56		16.468	1600/ 1435	No	WGBY		No. 1085 Operates as a single wagon
ZHBF	Hopper (Grain)	80	21	46		11.840	1600/ 1435	Yes	NGMA VHBF		No. 10000
ZOAF	Open	80	22	46		13.900	1600/ 1435	Yes	VOAF		No. 100
ZOBX	Open (Without Ridge Gear)	80	23	51	6000	14.900	1600/ 1435	Yes	VOBX, ELX		No. 123 May load to 80 tonnes gross at 80 km/h max speed
ZOWA	Open	80	16	32		11.700	1600/ 1435	Yes	VOWA		No. 396
ZQAX	Container Flat	90	17	62		14.000	1600/ 1435	Yes	AQAX	1186	Nos. 1–40
ZQBX	Container Flat	80	19	57		14.900	1600/ 1435	Yes	COBX GOBX VZOX	1194	Nos. 7, 244, 344, 1133, 1152
ZQCX	Container Flat	90	17	52		14.000	1600/ 1435	Yes	AQAX	1186	Nos. 1–40 (ZQAX type with 40 tonne bogies)
ZQDA	Container Flat	70	17	52		14.00	1600/ 1435	No	AQAX	1186	Nos. 1–40 (ZQAX type fitted with slow speed bogies)
ZQKX	Container Flat	80	25	51		23.700	1600/ 1435	Yes	GQKX, VFKX, SKX	1194	No. 1, 59, 314 Standard Gauge Only
ZQLX	Container Flat	80	22	54		20.100	1600/ 1435	Yes	EQAX	1200	No. 1-5
ZQNX	Container Flat with bulkheads	80	26	50		20.700	1600/ 1435	Yes	GFLX, VFLX, SFX	1194	No. 43 Standard Gauge Only
ZQPW	Container Flat	115	17	63		14.900	1600/ 1435	Yes		1000	No. 1
ZQRX	Container Flat	80	25	51		23.700	1600/ 1435	Yes	GQRX, VFRX, SKX	1194	No. 302, 303, 308, 311, 319, 322 Standard Gauge Only
ZVDY	Van – Crew/Power	100	23	10		12.600	1600/ 1435	No	VZDY GVDY		Nos. 9, 50–53
ZWAY	Well Wagon	100	19	31.5		16.100	1600/ 1435	No	VWAA		Nos. 5, 10
ZZMA	Ballast Hopper	65	15	36	500	9.200	1600/ 1435	Yes	VHWA		No. 57, 69, 85, 90, 112, 117, 123,

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

EL ZORRO TRANSPORT PTY LTD

FREIGHT VEHICLES

ON HIRE/LEASE TO EL ZORRO TRANSPORT 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
AGWF	Grain Hopper	80	20.3	46.1		13.851	1435	No	XW		Standard Gauge Only (ARG)
AHGX	Grain Hopper	80	21.4	56		14.580	1600/ 1435	Yes	SHBX		Ground operated lids & automatic discharge doors.(GWA)
AQPY	Container Flat	80	25	51		23.750	1600/ 1435	Yes	AOOX, AOSX, AOLX, AZOY, AOOY	1245	(G&W)
BODX	Open	80	21	55	4000	14.903	1600 1435	Yes	VOHX, VOFX, ELX	1200	No. 2301 May be load to 80 tonnes gross at 80 km/h max speed. (SSR)
BQCX	Flat with Bulkheads	80	26	50		20.700	1600 1435	Yes	SFX VFLX GFLX CFLX	1257	No. 2201, 2202 (SSR)
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. 1–12, 100–127 (CFCLA)
CFTX	Manual Sleeper Discharge	80	20	36		13.145	1600/ 1435	Yes	VZTX GFTX		Nos. 6101 – 6012 65 km/h when the uneven net load exceeds 12 tonnes (CFCLA)
CGDY	Covered Hopper	80	22.7	53.3		15.498	1600/ 1435	Yes			Ground operated lids & automatic discharge. Nos. 4001 to 4042 (CLCFA)
CHBY	Hopper Pair	80	≈46.0	≈106.0		≈25.57	1435	No		1100	No. 7050, 7052, 7054, 7067, 7068, 7073, 7074, 7075 Standard Gauge Only ≈ 2 Permanently coupled hopper wagons. (CFCLA)
CHEY	Ore Hopper Pair	80	≈42.0	≈110.0		≈22.40	1435	No		1120	No. 8002 - 8008 Standard Gauge Only ≈ 2 Permanently coupled hopper wagons. (CFCLA)
CHMF	Hopper	80 (90 when empty)	25	55	500	13.200	1600/ 1435	Yes	VZMF GHMF		Nos. 1, 2, 5-18, 20-22, 24, 25, 27-29, 31 to 60, 1001-1010. (CFCLA)
CHOY	Ballast Hopper Remote Controlled	80 (90 when empty)	25	51		13.200	1600/ 1435	Yes	VZMF GHMF CHMF		Nos. 6016 to 6063. (CFCLA)

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

EL ZORRO TRANSPORT PTY LTD

ON HIRE/LEASE TO EL ZORRO TRANSPORT 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
COBX	Open	90	23	53		14.900	1600/1435	Yes	VZOX GOBX	1194	Nos.7, 244, 344, 1133, 1152. (CLCFA)
CQBY	Container Skel	80	20	56	4000	19.400	1435	No		1020	Standard Gauge Only. May load to 80 tonnes gross at 80 km/h max speed. (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)
CQFY	Multipurpose Container Flat	80	17	71.25 tonnes 64.4 m ³ ♦		14.900	1435	No	NOBX Series 2	1130	Standard Gauge Only (CFCLA)
CQGY	Multipurpose Container Flat	80	20	92.0 tonnes 72.5 m ³ ♦		20.100	1435	No		1020	Standard Gauge Only (CFCLA)
CQOY	Container Flat	80	25	51		23.750	1600/1435	Yes	AQOY	1194	(CFCLA)
CQRX	Container Flat (can also be used to carry rail)	90	25	51	4000	23.700	1600/1435	Yes	VZRF GQRX	1194	Nos. 301- 319 May load to 80 tonnes at 80 km/h max speed (CFCLA)
CQXY	2-pack Container Skel	80	35.4	117	8000	28.251	1435	No		1020	Standard Gauge Only May load to 125 tonnes gross at 80 km/h max speed. (CFCLA)
CZAY	Ballast Plough	80	32	3		13.100	1600/1435	Yes	VLCX		No. 6099 (CFCLA)
RQMY	Container Flat	115	23	53	4000	25.730	1435	No	AQMY	1165	Standard Gauge Only May load to 80 tonnes gross at 80 km/h max speed. (SCT)
EQGX	Container Flat	80	25	51		23.200	1600/1435	Yes	VQGX	1194	No. 14(RPT)
VFBF	Container Flat	80	19.0	32.0		16.100	1600	No	VFBY	1208	No. 1(DERMPAV)
VOBX	Open (without Ridge Gear)	80	23	53	4000	14.900	1600/1435	Yes			Nos.244 May load to 80 tonnes gross at 80 km/h max speed (SR)
VOBX	Open (without Ridge Gear)	80	23	53	4000	14.900	1600/1435	Yes			Nos.289 May load to 80 tonnes gross at 80 km/h max speed (SRHC)
VHWA	Ballast Hopper	65	15	36	500	9.200	1600/1435	Yes			Nos. 67, 108 (SRHC)
VZWA	Flat Rail Transporter	70	17	45		13.9	1600/1435	Yes		1186	Nos. 1, 4, 7, 15, 17, 58 (SRHC)
VZMA	Ballast Hopper	65	15	36	500	9.200	1600/1435	Yes			Nos. 66, 68, 74, 92, 125, 126 (SRHC).
WGBY	Covered Hopper	80	≈48.0	≈104.0		≈32.61	1435	No			No. 1001 – 1084 Standard Gauge Only Air operated hatches & discharged doors. ≈ 2 Permanently coupled grain wagons. (AWB)

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

EL ZORRO TRANSPORT PTY LTD

ON HIRE/LEASE TO EL ZORRO TRANSPORT 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
WGSY	Covered Hopper	80	24.0	52.0		16.468	1435/ 1600	No			No. 2001 – 2090 Air operated hatches & discharged doors. (AWB)

Note ♣ Maximum capacity is 56 tonnes due to vehicle not to exceed 19 tonne axle limit

Note § This wagon is approved subject to being loaded with a 40 ft grain bin only which complies with ROA Plate 'A' diagram.

Note ♦ Maximum capacity is 59 tonnes due to vehicle not to exceed 19 tonne axle limit

Note ♣ Maximum capacity is 56 tonnes due to vehicle not to exceed 19 tonne axle limit

Note § This wagon is approved subject to being loaded with a 40 ft grain bin only which complies with ROA Plate 'A' diagram.

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	18.3	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 Standard Gauge Only
ALF	115	129.7	21.6	9600	20.684	3000	Restricted access since vehicle exceeds 19 tonne axle limit. Nos 18 – 24. Single ended. May operate as per G class locomotive category. Standard Gauge Only
CLF	115	131.9	22.0	9600	20.498	3000	Restricted access since vehicle exceeds 19 tonne axle limit. Nos 5, 6. Single ended. May operate as per C class locomotive category. Standard Gauge Only
CLP	115	131.9	22.0	9600	20.498	3000	Restricted access since vehicle exceeds 19 tonne axle limit. Nos 8, 14, 16, 17. Single ended. May operate as per C class locomotive category. Standard Gauge Only
GM (Type 2)	115	116	19.3	6,825	17.900	1340	Nos. 32, 34, 37, 38, 40, 42 - 47 Single ended. Standard Gauge Only.

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
AHMF	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 ³ ♦		15.500	1435	No			Pneumatic Discharge Standard Gauge Only (CFCLA)

Note ♦ Maximum capacity is 52 tonnes due to vehicle not to exceed 19 tonne axle limit

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. Standard Gauge Only
AFC Ω	Lounge Car	115	41.3	23.826	No. 213, 301, 305, 307, 937 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
AG	First Class Sitting Car	115	46.8	23.850	No. 369, 372, 373, 374, 375, 376 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
AOB Ω	Lounge Car	115	44.1	23.826	No. 265 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
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. Standard Gauge Only
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. Standard Gauge Only
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. Standard Gauge Only
BG	Economy Class Sitting Car	115	46.8	23.850	No. 368, 370, 371 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
BJ	Economy Class Sitting Car	115	46.8	23.850	No. 4-10 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
BMC	Special Car	115	48	23.900	No. 2 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
BRG Ω	Twinette Sleeping Car	115	49.3	23.826	No. 168, 171, 175, 972, 974 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
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. Standard Gauge Only
CCL	Lounge Car	115	43.0	23.900	No. 2 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
CDF Ω	Dinning Car	115	44.1	23.826	No. 225, 924, 928, 929, 966 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
DF Ω	Dinning Car	115	47.3	23.826	No. 231-233, 294, 304, 927, 930, 934, 964, Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
ER Ω	Crew Car	115	47.0	23.826	No. 207, 313, 906, 909, Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
HGM Ω	Power Van	115	56.6	23.826	No. 296-298, 317, 900, 902-904, Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
HM Ω	Luggage Van	115	39.6	23.826	No. 255, 256, 318, 957-959, Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
JTB	Twinette Sleeping Car	115	48.0	23.900	No. 1-4 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
PCO	Power Van	115	67.0	23.900	No. 4 Stainless Steel Body, Auto couplings. Standard Gauge Only
PHN	Power Van	115	31.0	12.450	No. 2369 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
RBJ	Economy Class Sitting Car with Buffet	115	46.7	23.850	No. 3 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only
SSA Ω	Excursion Sleeping Lounge Car	115	46.0	23.800	No. 260 Stainless Steel Body, Air-conditioned, Auto couplings. Standard Gauge Only

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

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

GREAT SOUTHERN RAIL 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
AMPZ Ω	Car Wagon	115	28			23.115	1435	No			No. 238, 264, 271 Standard Gauge Only
AMRZ Ω	Car Wagon	115	28			23.115	1435	No			No. 240, 241, 244, 251,255,258, 263, 268, 269, 272, 2591, Standard Gauge Only

Note Ω 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	28.0		21.100		Nos. 01, 102 Restricted to 80 km/h on A.R.T.C. Network
G	115	128	21.8	9,600	20.700	2240	Nos. 516, 534 Fitted with Super Series traction equipment
X	115	118	19.7	6,820	18.400	1490	Nos. 53, 54

NETWORK SERVICE PLAN

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	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
	6-54-008	Plasser PBR 201B	11.5	22.	70	50	BG
	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
	6-54-016	Tamper BE VR	6.8	12	70	50	SG
	6-54-017	Tamper BE VR	6.8	12	70	50	BG
	6-54-018	Tamper BE VR	6.8	12	70	50	BG
Ballast Tamper	N/A	Tamper Torsion Beam	14.0	24	40	30	SG/BG
	6-52-008	Tamper EJ6	7.0	18	40	30	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	6-57-001	Tamper CSC-2	7.0	14	50	40	BG
	6-57-003						
	6-57-005						
	6-57-006						
	6-57-007						
	6-57-008						
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	350	90	80	SG
	N/A	Loram	23	51	40	30	SG/BG/NG
	N/A	Loram	76	328	100	90	SG
Shoulder Ballast Cleaner	N/A	Loram	60	160	40	30	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
1CGS024	326265	Isuzu NPS300 Dual Cab Hi Rail	40 Jointed Track 60 Welded Track	6	7	6.1 metres long in travel mode – 7.0 metres with KLD heads lowered on rail
TEG770	N/A	Holden Rodeo Twin Cab Utility Hi-Rail	60	2.800	5.300	

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
HITACHI (CFD / NOR) TYPE						
M 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.
T 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.
T 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.
HITACHI (BLY / CHL) TYPE						
M Motor Car	115	51.7	86	23.600	<u>6 vehicles</u> 36, 37, 42, 105, 110, 178.	Stainless steel body, auto/drawbar couplings.
T Trailer Car	115	36.4	96	23.600	<u>2 vehicles</u> 1910, 1979.	Stainless steel body, drawbar couplings.
T 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.
COMENG (EDI) TYPE						
M 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.
M 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.
M 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.
T 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.
T 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.
T 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.

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
COMENG (ALSTOM) TYPE						
M 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.
M 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.
M 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.
M 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.
T 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.
T Trailer Car (with Knorr Tread Brakes)	115		96	23.200	<u>2 vehicles</u> 1057, 1058.	Air-conditioned, stainless steel body. Semi-permanent couplings.
T 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.
T 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.
UN-REFURBISHED COMENG (CFD / NOR) TYPE						
M 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.
T 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.
SIEMENS TYPE						
M Motor Car	130	41.5	84	24.070	<u>144 vehicles</u> 701–844	Air-conditioned, stainless steel body. Multi-function/semi-permanent couplings.
T Trailer Car	130	37.5	96	23.770	<u>72 vehicles</u> 2501–2572	Air-conditioned, stainless steel body. Semi-permanent couplings.
X'TRAPOLIS TYPE						
M Motor Car	130	43.3	86	24.460	<u>116 vehicles</u> 851–966.	Air-conditioned, all steel body. Multi-function/semi-permanent couplings.
T Trailer Car	130	35.5	92	22.760	<u>58 vehicles</u> 1626–1683	Air-conditioned, all steel body. Semi-permanent couplings.
X'TRAPOLIS TYPE(Modified Interior – Second Series)						
M 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
T Trailer Car	130	35.5	80	22.760	<u>768 vehicles</u> 1626–1683	Air-conditioned, all steel body. Semi-permanent couplings.
LOCO HAULED STOCK						
MTH 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.
IEV Inspection Car	80	39	N/A	19.200	1 vehicle, No.102.	Overhead infrastructure inspection vehicle. Pantographs fitted.

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

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)

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

METRO TRAINS MELBOURNE

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

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 Standard Gauge Only.
43 Ω	115	107.6	17.8	5,300	16.410	1300	Nos.4306 Standard Gauge Only.
44 Ω	115	112.0	18.7	5,500	17.800	1450	Nos.4490 Standard Gauge Only.
45 Ω	115	112.0	18.7	5,500	17.880	1450	Nos.4520 Standard Gauge Only.

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 Standard Gauge Only.
FAM Ω	Sleeping car	115	47.8	24.430	Nos 2391 Standard Gauge Only.
LAN Ω	Sleeping car	115	46	24.430	Nos 2352, 2377 Standard Gauge Only.
NAM Ω	Sleeping car	115	46	24.430	Nos 2338, 2373, 2375 Standard Gauge Only.
PHA Ω	Power Car	115	54.4	24.200	Nos 2358, 2359. Standard Gauge Only.
RMS Ω	Dining Car	115	46	23.430	Nos 2358, 2359. Standard Gauge Only.

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

RAIL OPERATORS ROLLING STOCK

PACIFIC NATIONAL (TRAIN OPERATING DIVISIONS)

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	20.2	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	21.3	10,230	20.700	2240	Nos. 26–35 Fitted with Super Series traction equipment
C	115 ♣	134	22.3	10,130	20.600	2240	Nos. 504, 505 have 6,000 litre fuel capacity
DL	115	122	20.3	8,200	19.700	2240	Nos. 36, 38–50 May operate as per XR class locomotive category. Standard Gauge Only
G	115	128	21.8	9,600	20.700	2240	Nos. 519, 520, 522 524, 525, 527, 528, 537–540, 542. Fitted with Super–Series traction equipment.
	115	128	21.8	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	20.3	3,500	13.400	820	Nos. 1–5 Fitted with Low–Speed Control
NR	115	132	22.0	12,500	22.000	2985	Nos. 1, 2, 4–121. May operate as per C class locomotive category. Standard Gauge Only
P	100	77	19.2	3,410	14.600	710	Nos. 19–23 Fitted with auxiliary generator to provide Head End Power
S	115 #	123	20.5	6,820	18.600	1340	Nos. 301, 306, 307, 310
T	100	69	17.3	3,410	13.400	710	Nos. 371, 374, 379, 382, 388, 390, 392, 396
	100	70	17.5	3,500	13.400	820	Nos. 399, 400, 402, 408, 409
V	115 ♣	130	22.0	12,000	22.000	2862	No. 544. May operate as per C class locomotive category. Standard Gauge Only
X	115	114	19.0	6,820	18.400	1340	Nos. 36 (Series 1)
	115	116	19.3	6,820	18.400	1490	Nos. 37, 39, 41–44 (Series 2)
	115 ♦	118	19.7	6,820	18.400	1490	Nos. 45–52 (Series 3)
XR	115 ♦	122	20.3	6,820	18.400	2237	Nos. XR550–554 (Series 1) See Note •
XR2	115 ♦	123	20.5	6,820	18.400	2237	Nos. XR555 (Series 1), XR557–559 (Series 2) Fitted with silencer equipment
XR-B	115	126	22.0	6,800	18.591	2237	No. 560 - 562
Y	65	65	17.0	4,550	13.300	450	Nos. 110, 115, 118, 119, 122, 150
	65	65	17.0	4,550	13.300	450	Nos. 152, 157, 165, 169, 171, 174
	100	68	17.0	4,550	13.300	450	No. 151 Standard Gauge Only Fitted with EMD D77 traction motors. Gear Ratio. 59.18
81	115	129	21.5	6,600	21200	2240	Nos. 8101–8184 Standard Gauge Only

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.

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

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

PACIFIC NATIONAL (TRAIN OPERATING DIVISIONS)

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	17.0	4,550	13.300	450	No. 148
Southern Shorthaul Railroad	B	115	123	20.5	4,540	18.500	1120	No. 61
	S	115 #	123	20.5	6,820	18.600	1340	No. 317
Seymour Rail Heritage Centre	T	100	69	17.3	3,410	14.700	710	No. 320
	T	100	69	17.3	3,410	13.400	710	Nos. 357, 378
	B	115	123	20.5	4,540	18.500	1120	No. 74
	GM	115	116	19.3	6,825	17.900	1305	No. 36
	S	115 #	123	20.5	6,820	18.600	1340	No. 303
Steamrail Inc.	T	100	69	17.3	3,400	13.400	710	Nos. 356, 364, 395
	S	115 #	123	20.5	6,820	18.600	1340	No. 313
Geelong Rail Preservation Society	T	100	69	17.3	3,400	14.600	710	No. 413
Chicago Freight Car Leasing Australia	B	115	123	20.5	4,540	18.500	1120	Nos. 65
	JL	115	113	18.8	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 Standard Gauge Only
	EL	115	114	19.0	7,500	20.500	2380	Nos. 51–58, 60–64 May operate as per X class locomotives category. Single ended operation only Standard Gauge Only
	T	100	69	17.3	3,410	14.600	710	No. 345
	T	100	69	17.3	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.

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		Standard Gauge Only ♣ see note on page No. 43
NGIF	Hopper (Grain)	80	20	56		15.056	1435	No	NGWF		Standard Gauge Only Air operated doors
NGKF	Hopper (Grain)	80	21	55♣		14.276	1435	No	NGTY WTY		Standard Gauge Only Air operated doors ♣ see note on page No. 30

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

PACIFIC NATIONAL (TRAIN OPERATING DIVISIONS)

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
NGPF	Hopper (Grain)	80	21	55♣		14.276	1435	No	NGTY WTY		Standard Gauge Only. Air operated doors ♣ see note on page No. 30
NGRX	Hopper (Grain)	80	17	56		14.300	1600/ 1435	Yes			
NGTY	Hopper (Grain)	80	21	55♣		14.276	1435	No			Standard Gauge Only ♣ see note on page No. 43
NGWF	Hopper (Grain)	80	20	56		15.065	1435	No	NGIF		Standard Gauge Only Air operated doors
NGXH	Hopper (Grain) (three pack)	80	26	50♣		51.820 3 wagons	1435	No	NHXX		Standard Gauge Only. Air operated top & bottom doors ♣ see note on page No. 30
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
NQHX	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	
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		
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

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

PACIFIC NATIONAL (TRAIN OPERATING DIVISIONS)

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
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
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
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

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

PACIFIC NATIONAL (TRAIN OPERATING DIVISIONS)

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
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.
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

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

PACIFIC NATIONAL (TRAIN OPERATING DIVISIONS)

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
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
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		Standard Gauge Only. May load to 80 tonnes gross at 80 km/h max speed.

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

PACIFIC NATIONAL (TRAIN OPERATING DIVISIONS)

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
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			Standard Gauge Only ♦ see note on page No. 30
VHLY	Hopper (Grain)	110 ♦	23.6	76 ♦		14.900	1435	No	VHGY		Standard Gauge Only ♦ see note on page No. 30
VHNY	Hopper (Grain)	110 ♦	24.0	76 ♦		15.53	1435	No	VHEF		Standard Gauge Only ♦ see note on page No. 30
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			
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.

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

PACIFIC NATIONAL (TRAIN OPERATING DIVISIONS)

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
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
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

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

PACIFIC NATIONAL (TRAIN OPERATING DIVISIONS)

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
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			
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.

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

PACIFIC NATIONAL (TRAIN OPERATING DIVISIONS)

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
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	500	14.500	1600	No	VOJF		Recorded for Department use
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			

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

PACIFIC NATIONAL (TRAIN OPERATING DIVISIONS)

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
VZZF	Bogie Transport	80	24	52		18.100	1600	No			
XGAY	Hopper (Grain)	80	24	52♣		16.485	1435	No			Standard Gauge Only. 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
CQBY	Container Skel	80	20	56	4000	19.4	1435	No		1020	Standard Gauge Only. (CFCLA). May load to 80 tonnes gross at 80 km/h max speed
NHBF	Ballast	80	19	61		12.4	1435/ 1600	Yes			
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

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

PACIFIC NATIONAL (TRAIN OPERATING DIVISIONS)

OPERATED UNDER PACIFIC NATIONAL ACCREDITATION

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 (90 when empty)	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)

RAIL OPERATORS ROLLING STOCK

RAILCORP (COUNTRYLINK)

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	19.0	4,500	17.300	1490	Nos.2000-2016 Standard Gauge Only.
	160	76.0	19.0	4,500	17.300	1490	Nos.2017, 2018. Leased from Dept. of Infrastructure (Vic). Standard Gauge Only.

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). Standard Gauge Only.
XAM	XPT Sleeping car	160	48	24.200	Nos 2179-2182. Standard Gauge Only.
XBR	XPT First with Buffet	160	45	24.200	Nos 2150-2158. Standard Gauge Only.
XF	XPT Economy Car	160	44	24.200	Nos 2179-2182. Standard Gauge Only.
XFH	XPT Economy/Luggage Compartment	160	45	24.200	Nos 2104-2110, 2112, 2113. Standard Gauge Only.
XL	XPT First Class Sitting	160	44	24.200	Nos 2228, 2229. Leased from Dept. of Infrastructure (Vic). Standard Gauge Only.
XL	XPT First Class Sitting	160	44	24.200	Nos 2230-2236. Standard Gauge Only.

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

RAIL CORPORATION N.S.W.

TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)
Track Recorder Car ♦	No. RVX-4 (SG) #	Plasser EM120	15	46	80 Recording 100 Not Rec	75 80
Track Recorder Car ♦	EM 80 E #	Plasser EM80E	13.7	24	70	70

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.

WAGONS

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	Rail Task 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 Standard Gauge Track

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

SOUTH SHORTHHAUL 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	Remark/Restrictions
B	115	123	20.5	4,540	18,500	1120	No. 61
S	115 #	123	20.5	6,820	18,600	1340	No. 317

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

ON HIRE/LEASE TO SOUTHERN SHORTHHAUL RAILROAD

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	T	100	69	17.300	3410	13.400	710	No. 369, 373, 376
	S	115 #	123	20.5	6,820	18,600	1340	No. 300
SteamRail Victoria	T	100	69	17.3	3410	13.400	710	No. 395

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

ON HIRE/LEASE TO SOUTHERN SHORTHHAUL RAILROAD

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 (90 when empty)	25	55		13,200	1600/1435	Yes	VZMF GHMF CHMF		Nos. 6016 to 6063. (CFCLA)
CQRX	Container Flat (can also be used to carry rail)	90	25	51		23,700	1600/1435	Yes	VZRF GQRX	1194	Nos. 301, 303, 308, 309, 311, 317, 322 May load to 80 tonnes at 80 km/h max speed (CFCLA)

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

SOUTH SPUR RAIL SERVICES PTY LTD

DIESEL ELECTRIC LOCOMOTIVES

ON HIRE/LEASE TO SOUTH SPUR RAIL 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
Chicago Freight Car Leasing Australia	B	115	123	20.5	4,540	18.500	1120	No. 76, 80
SteamRail Victoria	S	115 #	123	20.5	6,820	18.600	1340	No. 313

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

ON HIRE/LEASE TO SOUTH SPUR RAIL SERVICES

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
CFLX	Flat with Bulkheads	80	26	50		20.700	1600 1435	Yes	GFLX VFLX	1257	No. 18, 99 (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)
CQOY	Container Flat	80	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)
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)
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)

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

SPECIALISED CONTAINER TRANSPORT

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 / Restrictions
ABFY	Box Van	110	30	46	4000	23.700	1435	No			May load to 80 tonnes gross at 80km/h max speed
AQOY	Container Flat	110	25	51		23.700	1600/ 1435	Yes		1194	
AQXY	Container Flat	110	25	51		23.700	1600/ 1435	No		1194	
ARBY	Refrigerated Van	110	30	54		23.700	1435	No	ABFY		Superfreighter Vehicle
ARFY	Refrigerated Van	110	30	54		23.700	1435	No	AQOY		Superfreighter Vehicle
AZOY (Type 1)	Open	95	28	48	4000	23.700	1600/ 1435	Yes	AOOX		Old AOOX class vehicles numbered beyond 2000 may load to 80 tonnes gross at 80 km/h max speed
WQCY	Container Flat	100	23.5	52.5	4000	19.200	1435	No		1194	Superfreighter vehicle. May load to 80 tonnes at 80km/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

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 Ω	M30	Seno 'RR24M' Series Rail Grinder	44.9	151	60	60
Track Recorder Car \blacklozenge	No. EM 100 $\#$ (BG/SG)	Plasser EM100	15	46	80 Recording 100 Not rec \clubsuit	75 80

ROAD / RAIL VEHICLES

Registration Number	Plant Number	Description of Vehicle	Maximum Speed (km/h)	Loaded Mass (Tonnes)	Length (Metres)	Remarks
1DGK-460	HRR8-4A	Hino Switch and Utility Grinder	25	22.5	11.0	

Note \blacklozenge 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.

Note \clubsuit Due to no TPWS being fitted to this machine a restriction of 80 km/h is to apply on RFR Corridors.

Note Ω 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.

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	20.2	4,540	18.500	1680	Nos. 60, 62, 66, 70
N	115	124	20.6	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	21.3	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	19.2	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	17.0	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 See Note ∞
Vlocity	Self-propelled Passenger vehicle. Operates as a permanently coupled two car unit.	160	114 (Two Car Set)	50.510 (Two Car Set)	1120	DMD Nos. 1100–1118 DM Nos. 1200–1218 See Note #
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. 1119-28, 1130 – 51 TM No. 1319-28, 1330 – 51 DM No. 1219-28, 1230 – 51 See Note #,•

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 DMU'S ARE RESTRICTED TO OPERATE IN MULTIPLE UNIT ON THE FOLLOWING V/LINE REGIONAL RAIL NETWORKS:-
 Werribee – Marshall, 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	10/12/2012	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

NETWORK SERVICE PLAN

RAIL OPERATORS ROLLING STOCK

V/LINE

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
T ♣	100	69	17.3	05/04/2013	14.700	710	No. 413
B ♠	115	123	20.5	31/12/2011	18.500	1120	No. 74
S ♠	115	123	20.5	31/12/2011	18.600	1340	No.303 Single end operation only
T ♠	100	69	17.3	31/10/2008	14.700	710	No. 320 Flat Top Type
T ♠	100	69	17.3	30/11/2011	14.600	710	No. 357
T ♠	100	69	17.3	30/11/2011	13.400	710	No. 378
T ▶	100	69	17.3	30/11/2012	13.400	710	No. 356
T ▶	100	69	17.3	31/05/2012	13.400	710	No. 364
T ▶	100	69	17.3	28/02/2013	13.400	710	No. 395
Y ▶	65	68	17.0	31/10/2012	13.300	450	No. 164
S ▶	115 #	123	20.5	30/12/2012	18.600	1340	No. 313

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	Kw for Traction	Remarks / Restrictions
R ♣	115	191	21.1	05/04/2013	23.500		No. 707
J ♠	80	115	15.8	04/10/2007	18.400		No. 515
D ³ ▶	95	102	14.0	31/10/2012	18.400		No. 639
K ▶	80	106	13.7	31/10/2012	18.400		No's. 153, 190
R ▶	110	191	21.1	30/06/2012	23.500		No. 711
	115	191	21.1	31/10/2012	23.500		No. 761
Y ▶	60	75.2	15.6	31/07/2012	14.662		No. 112

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, 1-14, 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

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

TRACK MACHINES

Machine Type	Road Numbers	Make/Model	Length (Metres)	Mass (Tonnes)	Maximum Speed (km/h)	Schedule Speed (km/h)
Ballast Tamper	No. RNTM 3001 - 2	Pandrol Jackson 6700 Production/Switch Tamper	14.75	31.0	72	50
Ballast Regulator	No. RNBR 3001 – 2	Knox Kershaw KBR850 Ballast Regulator	10.87	15.0	72	50
Ballast Regulator	No. RNBR 3003	Knox Kershaw KBR850 Ballast Regulator with Compactor fitted.	9.30	19.6	72	50

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	05/04/2013	22.800	Air-conditioned, all steel body and auto coupling. No. 255
BS ♣	Passenger Carriage	115	49	05/04/2013	22.800	Air-conditioned, all steel body and auto coupling No. 205, 212
BRS ♣	Passenger Carriage	115	48	05/04/2013	22.800	Air-conditioned, all steel body and auto coupling. No. 224
BZ ♣	Passenger Carriage	115	50	05/04/2013	22.800	Air-conditioned, all steel body and auto coupling. No. 270
JTA ♣	Sleeping Car	115	48.7	05/04/2013	23.826	Air-conditioned, all steel body and auto coupling. No. 6 (Kuldali)
PCP ♣	Power Van	115	31	05/04/2013	12.800	All steel body, vestibule west end, auto coupling & 6 tonne capacity. No. 294
D ♣	Parcels Van	115	36	05/04/2013	12.800	All steel body, auto coupling & 24.5 tonne capacity. No. 318
ABE ♠	Passenger Carriage	80	46	31/10/2011	22.500	Wooden body & auto coupling. No. 5, 16
AE ♠	Passenger Carriage	80	46	31/10/2011	22.500	Wooden body & auto coupling. No. 2, 30
AS ♠	Passenger Carriage	115	49	28/02/2013	22.800	Air-conditioned, all steel body and auto coupling. No. 3 & 4

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
Avoca ♠	Dining Car	115	75	30/11/2009	23.100	Air-conditioned, all steel body and auto coupling. (Old Class RS 235)
BE ♠	Passenger Carriage	80	46	30/09/2010	22.500	Wooden body & auto coupling. No. 1
	Passenger Carriage	80	46	30/11/2011	22.500	Wooden body & auto coupling. No. 14
BS ♠	Passenger Carriage	115	48	28/02/2013	22.800	Air-conditioned, all steel body and auto coupling. No. 1 & 3
CS ♠	Brake Van	115	56	30/11/2008	18.200	All steel body, auto coupling & 20 tonne capacity. No. 1
Dining ♠	Dining Car	115	54	31/01/2010	22.800	Air-conditioned, all steel body and auto coupling Murray (Old Class RS 236)
D ♠	Power Van	115	36	30/11/2009	12.800	All steel body, auto coupling & 24.5 tonne capacity. No. 319
Mitta Mitta ♠	Passenger Carriage	115	50	30/11/2011	22.800	Air-conditioned, all steel body and auto coupling. (Old Class BRS228)
Parlour ♠	Observation Car with Compartment	115	54	28/02/2013	22.800	Air-conditioned, all steel body and auto coupling. Norman (Old Class OS237)
State ♠	Passenger Carriage	80	50	31/10/2011	22.700	Wooden body & auto coupling. Open platform at one end. No. 4
Yarra ♠	Passenger Carriage	80	41	30/09/2010	22.500	Wooden body & auto coupling. Open platform at Saloon end
ABE ▶	Passenger Carriage	80	46	31/10/2012	22.500	Wooden body & auto coupling. No. 3
				31/08/2012	22.500	Wooden body & auto coupling. No. 7
AE ▶	Passenger Carriage	80	46	31/08/2012	22.500	Wooden body & auto coupling. No. 12
AK ▶	Passenger Carriage	115	42	31/10/2012	22.000	All steel body & auto coupling. No. 500
AS ▶	Passenger Carriage	115	49	30/06/2012	22.800	Air-conditioned, all steel body & auto coupling. No. 8
				30/09/2012	22.800	Air-conditioned, all steel body & auto coupling. No. 11
AW ▶	Passenger Carriage	80	32	31/08/2012	17.700	Wooden body & auto coupling. No. 64
BCE ▶	Passenger/Guards Van	80	43	31/08/2012	22.800	Wooden body & auto coupling. Equipped with van goods compartment. No. 1
BE ▶	Passenger Carriage	80	46	31/10/2009	22.500	Wooden body & auto coupling. No. 4
				31/10/2012	22.500	Wooden body & auto coupling. No. 46

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
				30/09/2012	22.500	Wooden body & auto coupling. No. 17, 25, 38.
BK ▶	Passenger Carriage	115	40	31/10/2012	19.000	All steel body & auto coupling. No.600
				30/06/2009	19.000	All steel body & auto coupling. No. 703
				30/06/2012	19.000	All steel body & auto coupling. No. 700, 702
BRS ▶	Passenger Carriage	115	48	31/08/2012	22.800	Air-conditioned, all steel body & auto coupling. No. 14, 9
BS ▶	Passenger Carriage	115	49	30/09/2012	22.800	Air-conditioned, all steel body & auto coupling. No. 2
				30/09/2007	22.800	Air-conditioned, all steel body & auto coupling. No 206
				30/06/2009	22.800	Air-conditioned, all steel body & auto coupling. No 207
BW ▶	Passenger Carriage	80	36	31/10/2012	20.300	Wooden body & auto coupling. No. 61, 63
				31/08/2012	20.300	Wooden body & auto coupling. No. 60, 67
				30/09/2012	20.300	Wooden body & auto coupling. No. 68
BZ ▶	Passenger Carriage	115	50	30/06/2012	22.800	Air-conditioned, all steel body & auto coupling. No.269
CE ▶	Guards Van	80	46	31/08/2012	19.300	Wooden body & auto coupling & 12 tonne capacity. No. 18
Coliban ▶	Sleeping Car	80	46	31/10/2012	22.500	Wooden body & auto coupling. No. 7
CW ▶	Guards Van	80	36	31/10/2012	16.200	Wooden body & auto coupling. No. 14
Goulburn ▶	Sleeping Car	80	51	30/09/2012	22.500	Wooden body & auto coupling.
Indi	Sleeping Car	80	56	30/09/2012	22.500	Air-conditioned, wooden body & auto coupling No. 2
Inman ▶	Sleeping Car	80	46	31/10/2012	22.500	Wooden body & auto coupling. No. 8
LAN ▶	Sleeping Car	115	46	31/10/2012	23.400	Air-conditioned, stainless steel body & auto coupling No. 2354
Moorabool ▶	Club Car	115	56	31/10/2012	22.800	Air-conditioned, all steel body & auto coupling (Old Class RS 234)
PCP ▶	Power Van	115	67	30/06/2012	12.800	All steel body, vestibule west end, auto coupling & 6 tonne capacity. No. 292
Werribee ▶	Sleeping Car	80	56	31/10/2012	22.500	Wooden body & auto coupling. No. 1

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	30/06/2012	VOAA		No 9
VZVF ▶	Water Tanker	80	35.0	25.0		20.000	1600	30/09/2012	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**

NETWORK SERVICE PLAN