

TOC Reference Number: CRN 21-061

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Issued by: Drew Palmer

Requested by: Principal Track & Civil Engineer

Issued Date: 29 September 2021

Start Date: 30 September 2021

Subject: Approval of 23TAL operation on the Stockinbingal to Griffith route

This TOC Waiver is superseding CRN 21-049 and updating the network operation conditions on the S70 Stockinbingal ⇔ Temora and S80 Temora ⇔ Griffith lines to enable 23 tonne axle loads. Maximum operating speeds have been altered for all vehicle types per the advice below.

SECTION 2A	Stockinbingal – Temora West								
	SPEED CLASS	Freight Axle Load/Speed							
		19t	19.5t	20t	20.25t	21t	21.75t	23t	25t
Freight (c)	A	100	100	60 (e) 60 (f)	60 (f)	60 (f)	50 (l)	50 (l)	
	B	100	100	60 (e) 60 (f)	60 (f)	60 (f)	50 (l)	50 (l)	
	C	80	80	60 (e) 60 (h)	60 (h)	60 (h)	50 (l)	50 (l)	
	D	65							
	E	80	80	70 (g)	70 (g)				
	F								
Locomotives (a) (c)	Load Rating	S4 – S8		S9 – S13					
	Max Speed	80		100					
Passenger (b)	XPT	0							
	Xplorer	140							
	Other	100							
SECTION 2B	Temora West – Griffith (see note d)								
	SPEED CLASS	Freight Axle Load/Speed							
		19t	19.5t	20t	20.25t	21t	21.75t	23t	25t
Freight (e, f, h)	A	100							
	B	100	85 100 (o)	75 100 (o)	70 100 (o)	60 80 (o)			
	C	80	80	75 80 (o)	70 80 (o)	60 80 (o)	50 65 (o)	35 50 (o)	
	D	65							
	E	80	80	75 80 (o)	70 80 (o)	60 80 (o)			
	F	65	65	65	65	60 65 (o)	50 65 (o)	35 50 (o)	
Locomotives (a)	Load Rating	S4 – S8		S9 – S13					
	Max Speed	80		100					
Passenger (b)	XPT	0							
	Xplorer	140							
	Other	100							

NOTES:

- Unless shown otherwise, S2 and S3 locomotives are not permitted to operate on this corridor except when configured as an S5 locomotive, by short loading of fuel as required by Note R19 in Section 10 of the TOC Manual.
- Passenger trains, with the exception of Xplorer DMUs, are not permitted to operate on this track section unless authorised by the CRN Access Manager. Maximum speed for Xplorer DMUs is 140km/h where track speeds permit.
- Special Notice:** Loaded wagons and locomotives that exceed the axle load limits specified in Section 6A must not proceed beyond the **642km marker on the Griffith-Hillston single line section**

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- e) Only vehicles covered by Note R1 in Section 10 of the TOC Manual
- f) Only vehicles covered by Note R20 in Section 10 of the TOC Manual
- g) Only vehicles covered by Note R16 in Section 10 of the TOC Manual
- h) Only vehicles covered by Note R21 in Section 10 of the TOC Manual
- l) Wagons loaded above 21 tonnes per axle up to 23 tonne per axle are permitted to operate. Wheel hollowing not to exceed 2 mm.
- o) Only vehicles covered by Note R24 in Section 10 of the TOC Manual

DOWN		LOCOMOTIVE LOAD/SPEED CAT.	LOCOMOTIVES				TRAIN DATA			NOTES
LOADS & CONDITIONS			ONE	TWO	THREE	FOUR	MAX TRAIN SPEED	SECTION RUN TIMES	WAGON AXLE LOADING	
SECTIONS		TRAILING LOAD (tonnes)(b)								
1	STOCKINBINGAL-GRIFFITH	AC6/S5	4407				50	1	23.0	a
2	STOCKINBINGAL-GRIFFITH	L4/S5	3369	(7238)			50	1	23.0	a
3										
4	STOCKINBINGAL-GRIFFITH	L7/S9	1556	3112	4668		80	2	19.5	
5	STOCKINBINGAL-GRIFFITH	L9/S6	1300	2600	3900	5200	80	2	19.5	
6	STOCKINBINGAL-GRIFFITH	L10/S9	1254	2508	3762	5016	80	2	19.5	
7	STOCKINBINGAL-GRIFFITH	L11/S8	1150	2300	3450	4600	80	2	19.5	
8	STOCKINBINGAL-GRIFFITH	L12/S9	1070	2140	3210	4280	80	2	19.5	
9	STOCKINBINGAL-GRIFFITH	L7/S5	1556	3112	4668	(6224)	80	2	19.5	
10	STOCKINBINGAL-GRIFFITH	L9/S8	1300	2600	3900	5200	80	2	19.5	
11	STOCKINBINGAL-GRIFFITH	L10/S7	1254	2508	3762	5016	80	2	19.5	
12										
13	STOCKINBINGAL-GRIFFITH	AC6/S5	2550	5100	(7650)		80	3	19.5	a
14	STOCKINBINGAL-GRIFFITH	L2/S4	2213	4426	(6639)		80	3	19.5	
15	STOCKINBINGAL-GRIFFITH	L3/S5	2040	4080	(6120)		80	3	19.5	a
16	STOCKINBINGAL-GRIFFITH	L4/S5	1927	3854	5781		80	3	19.5	a
17	STOCKINBINGAL-GRIFFITH	L5/S5	1805	3610	5415		80	3	19.5	a
18	STOCKINBINGAL-GRIFFITH	L6/S5	1595	3190	4785		80	3	19.5	a
20	STOCKINBINGAL-GRIFFITH	L7/S8	1556	3112	4668		80	3	19.5	
21										
22	STOCKINBINGAL-GRIFFITH	L13/S13	720	1440	2160	2880	80	4	19.5	

- (a) Unless shown otherwise, S2 and S3 locomotives are not permitted to operate on this corridor except when configured as an S5 locomotive, by short loading of fuel as required by Note R19 in Section 10 of the TOC Manual.
- (b) Trailing Load - tonnages contained inside brackets e.g. (7238) indicate tonnages exceeding 6000 tonnes may require distributed power configuration and need to be approved by the CRN Principal Track and Civil Engineer prior to any operation.

DOWN	SECTIONAL RUNNING TIMES					FULL SECTIONAL LOADS													GRADE
						LOCOMOTIVE LOAD CATEGORIES													
SECTIONS	1	2	3	4	Light engine	AC6	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	
STOCKINBINGAL	☺	☺	☺	☺	S4-S8/S9-	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
BEGIN CRN SIG SL20	5	1	3	3	1/2	5122	4476	4137	3914	3687	3260	3169	3095	2671	2571	2371	2213	1544	1:190
STOC'GAL AWB INTF	9	2	4	5	2/2	4407	3855	3562	3369	3171	2803	2726	2660	2295	2210	2036	1900	1326	1:150
COMBANING	24	15	19	22	15/14	2550	2213	2040	1927	1805	1595	1556	1509	1300	1254	1150	1070	720	1:72
TEMORA	22	12	18	21	12/11	3195	2791	2576	2435	2289	2021	1968	1915	1650	1591	1462	1365	952	1:94
TEMORA WEST	4	4	4	5	3/3	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	1600	DH
PUCAWAN	25	17	22	27	17/17	3039	2654	2449	2315	2175	1920	1870	1818	1567	1511	1388	1295	904	1:90
QUANDARY	5	3	3	4	3/3	4407	3855	3562	3369	3171	2803	2726	2660	2295	2210	2036	1900	1326	1:149
ARIAH PARK	14	9	10	11	9/8	3297	2881	2659	2514	2363	2086	2032	1975	1704	1643	1511	1410	984	1:100
MIRROOL	17	10	11	12	10/8	4206	3679	3398	3214	3025	2674	2600	2536	2188	2108	1941	1812	1264	1:138
BECKOM	17	11	11	11	11/8	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	1600	L
ARDLETHAN	10	7	7	7	6/6	5204	4555	4210	3983	3752	3318	3224	3150	2719	2617	2414	2253	1572	1:194
KAMARAH	18	11	18	22	11/11	2985	2607	2405	2274	2136	1885	1837	1785	1539	1484	1363	1272	887	1:87
MOOMBOOLDIOL	13	8	8	9	8/7	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	1600	DH
BARELLAN	13	8	8	8	8/6	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	1600	L
GAROOLGAN	16	10	10	10	9/8	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	1600	DH
BINYA	12	8	10	10	8/7	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	1600	L
YENDA	19	12	12	13	12/9	4102	3587	3314	3134	2949	2607	2535	2472	2133	2055	1892	1766	1232	1:132
GRIFFITH	22	14	15	16	14/12	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	1600	L
Totals	265	162	193	216	159/142														

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UP LOADS & CONDITIONS		LOCOMOTIVE LOAD/ SPEED CAT.	LOCOMOTIVES				TRAIN DATA			NOTES
			ONE	TWO	THREE	FOUR	MAX TRAIN SPEED	SECTION RUN TIMES	WAGON AXLE LOADING	
			TRAILING LOAD (tonnes)(b)							
1	GRIFFITH-STOCKINBINGAL	AC6/S5	5283				50	1	23.0	a
2	GRIFFITH-STOCKINBINGAL	L4/S5	4044	(8088)			50	1	23.0	a
3										
4	GRIFFITH-STOCKINBINGAL	L7/S9	1556	3112	4668		80	2	19.5	
5	GRIFFITH-STOCKINBINGAL	L9/S6	1300	2600	3900	5200	80	2	19.5	
6	GRIFFITH-STOCKINBINGAL	L10/S9	1254	2508	3762	5016	80	2	19.5	
7	GRIFFITH-STOCKINBINGAL	L11/S8	1150	2300	3450	4600	80	2	19.5	
8	GRIFFITH-STOCKINBINGAL	L12/S9	1070	2140	3210	4280	80	2	19.5	
9	GRIFFITH-STOCKINBINGAL	L7/S5	1556	3112	4668	(6224)	80	2	19.5	
10	GRIFFITH-STOCKINBINGAL	L9/S8	1300	2600	3900	5200	80	2	19.5	
11	GRIFFITH-STOCKINBINGAL	L10/S7	1254	2508	3762	5016	80	2	19.5	
12										
13	GRIFFITH-STOCKINBINGAL	AC6/S5	2550	5100	(7650)		80	3	19.5	a
14	GRIFFITH-STOCKINBINGAL	L2/S4	2213	4426	(6639)		80	3	19.5	
15	GRIFFITH-STOCKINBINGAL	L3/S5	2040	4080	(6120)		80	3	19.5	a
16	GRIFFITH-STOCKINBINGAL	L4/S5	1927	3854	5781		80	3	19.5	a
17	GRIFFITH-STOCKINBINGAL	L5/S5	1805	3610	5415		80	3	19.5	a
18	GRIFFITH-STOCKINBINGAL	L6/S5	1595	3190	4785		80	3	19.5	a
19	GRIFFITH-STOCKINBINGAL	L7/S8	1556	3112	4668		80	3	19.5	
20										
21	GRIFFITH-STOCKINBINGAL	L13/S13	720	1440	2160	2880	80	4	19.5	

- (a) Unless shown otherwise, S2 and S3 locomotives are not permitted to operate on this corridor except when configured as an S5 locomotive, by short loading of fuel as required by Note R19 in Section 10 of the TOC Manual.
- (b) Trailing Load - tonnages contained inside brackets e.g. (8088) indicate tonnages exceeding 6000 tonnes may require distributed power configuration and need to be approved by the CRN Principal Track and Civil Engineer prior to any operation.

UP SECTIONS	SECTIONAL RUNNING TIMES					FULL SECTIONAL LOADS													GRADE
						LOCOMOTIVE LOAD CATEGORIES													
	1	2	3	4	Light engine	AC6	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	
GRIFFITH	☺	☺	☺	☺	S4-S8/S9-S13	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
YENDA	24	16	19	21	15/13	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	1600	L
BINYA	19	12	13	16	12/9	3775	3300	3047	2882	2711	2395	2330	2271	1959	1887	1737	1621	1131	1:121
GAROOLGAN	12	8	8	10	8/6	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	1600	L
BARELLAN	16	10	11	14	10/8	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	1600	L
MOOMBOOLDIOL	13	8	9	11	8/6	5057	4426	4090	3869	3645	3223	3132	3060	2641	2542	2344	2188	1527	1:186
KAMARAH	17	9	16	20	9/8	3542	3096	2858	2702	2541	2245	2185	2128	1835	1768	1627	1518	1059	1:109
ARDLETHAN	20	11	17	21	11/11	3195	2791	2576	2435	2289	2021	1968	1915	1650	1591	1462	1365	952	1:95
BECKOM	10	7	9	10	7/6	3660	3199	2954	2793	2627	2321	2259	2200	1897	1828	1682	1570	1096	1:115
MIRROOL	17	11	13	16	10/9	4206	3679	3398	3214	3025	2674	2600	2536	2188	2108	1941	1812	1264	1:138
ARIAH PARK	17	11	14	18	10/9	3421	2990	2760	2609	2453	2167	2109	2054	1770	1707	1569	1465	1022	1:105
QUANDARY	16	9	15	17	9/9	3297	2881	2659	2514	2363	2086	2032	1975	1704	1643	1511	1410	984	1:102
PUCAWAN	6	4	6	7	4/3	3542	3096	2858	2702	2541	2245	2185	2128	1835	1768	1627	1518	1059	1:112
TEMORA WEST	29	17	25	31	17/16	3195	2791	2576	2435	2289	2021	1968	1915	1650	1591	1462	1365	952	1:96
TEMORA	3	2	3	3	2/2	3372	2946	2720	2571	2418	2135	2079	2023	1744	1681	1546	1443	1007	1:103
COMBANING	22	13	17	19	12/11	3039	2654	2449	2315	2175	1920	1870	1818	1567	1511	1388	1295	904	1:92
STOC' GAL AWB INTF	29	15	22	27	15/14	2550	2213	2040	1927	1805	1595	1556	1509	1300	1254	1150	1070	720	1:74
END CRN SIG SL20	9	2	2	2	2/2	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	1600	L
STOCKINBINGAL	4	2	2	2	2/2	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	1600	L
Totals	281	167	221	265	163/144														

Stockinbingal to Griffith - Loops and Sidings

Location	Nominal Kilometrage	Road Name	Nominal Train Length (m)	Track Access		
				Maximum Locomotive	Maximum Freight Wagon	Track Vehicle Only
				"S" Type	Axle Load	
STOCKINBINGAL AWB	457.500	Grain Siding	1759	S4	23	
COMBANING	474.441	Grain Siding	495	Booked Out		
TEMORA SUB TERMINAL	485.951	Grain terminal	686	S4	23	
		Loop	1842	S4	23	
TEMORA	489.290	No 2 Goods Siding	235	S4	23	
		No 4 Goods Siding	230	S4	23	
		No 1 Siding	622	S4	23	
		No 2 Siding	274	S4	23	
		No 3 Siding	460	S4	23	
		Grain Siding	443	S4	23	
		Storage Siding	63			
TEMORA WEST	491.222	Mainline Loader	1295	S4	23	
PUCAWAN	508.157	Grain Siding	466	Booked Out		
QUANDARY	512.051	Grain Siding	476	Booked Out		
ARIAH PARK WHEAT	520.582	Loop	15	S4	23	
		Sydney end neck	243	S4	23	
		Griffith end neck	248	S4	23	
ARIAH PARK	522.111	Loop	436	S4	23	
		Grain Siding	408	S4	23	
MIRROOL	535.030	Grain Siding	615	S4	23	
BECKOM	547.892	Grain Siding	531	S4	23	
ARDLETHAN	555.323	Loop	396	S4	23	
		Silo Siding	474	S4	23	
ARDLETHAN WHEAT	556.732	Grain Siding	1078	S4	23	
KAMARAH	567.475	Grain Siding	492	S4	23	
MOOMBOOLDOOL	578.098	Grain Siding	770	S4	23	
BARELLAN WHEAT	587.000	Grain Siding	467	S4	23	
BARELLAN	587.799	Loop	590	S4	23	
		Grain Siding	514	S4	23	
GAROOLGAN	600.261	Grain Siding	465	S4	23	
BINYA	609.588	Grain Siding	650	S8	20.25	
YENDA	623.967	Loop	235	S4	23	
		Goods Siding	235	S4	23	
		Grain Siding	480	S4	23	
GRIFFITH	640.375	Loop	391	S4	23	
		No 1 Goods Siding	275	Private Siding		
		No 2 Goods Siding	632	Private Siding		
		No 3 Goods Siding	651	Private Siding		
		Back Platform Road	191	S13	19	
		Engine Road	345	S13	19	
		Turntable Road	23	S13	19	

Signature:

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