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Issued by: Drew Palmer

Requested by: Principal Track & Civil Engineer

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Subject: Approval of 23TAL operation on the Walgett line

This TOC Waiver is superseding CRN 21-010 and updating the network operation conditions on the N80 Narrabri ↔ Walgett line to enable 23 tonne axle loads. Maximum operating speeds have been altered for all vehicle types per the advice below.

SECTION 2A	Narrabri Junction – Narrabri West								
	SPEED CLASS	Freight Axle Load/Speed							
		19t	19.5t	20t	20.25t	21t	21.75t	23t	25t
Freight (g, l, m)	A	20							
	B	20	20	20	20	20			
	C	20	20	20	20	20	20	20	
	D	20							
	E	20	20	20	20	20			
	F	20	20	20	20	20	20	20	20
Locomotives (a)	Load Rating	S4 – S13							
	Max Speed	20							
Passenger (b)	XPT	20							
	Xplorer	20							
	Other	20							

SECTION 2B	Narrabri North Junction – Narrabri West								
	SPEED CLASS	Freight Axle Load/Speed							
		19t	19.5t	20t	20.25t	21t	21.75t	23t	25t
Freight (c, g, l, m)	A	20							
	B	20	20	20	20	20			
	C	20	20	20	20	20	20	20	
	D	20							
	E	20	20	20	20	20			
	F	20	20	20	20	20	20	20	20
Locomotives (a) (c) (d)	Load Rating	S4 – S13							
	Max Speed	20							
Passenger (b)	XPT	20							
	Xplorer	20							
	Other	20							

SECTION 2C	Narrabri West – Wee Waa								
	SPEED CLASS	Freight Axle Load/Speed							
		19t	19.5t	20t	20.25t	21t	21.75t	23t	25t
Freight (g, l, m)	A	80							
	B	80	80	80	80	80			
	C	80	80	80	80	80	70 80 (o)	50	
	D	80							
	E	80	80	80	80	80			
	F	80	80	80	80	80	70 80 (o)	50	
Locomotives (a)	Load Rating	S4 – S5		S6	S7 - S13				
	Max Speed	80		70	80				
Passenger (b)	XPT	80							
	Xplorer	80							
	Other	80							

SECTION 2D	Wee Waa – Burren Junction (see note n)								
	SPEED CLASS	Freight Axle Load/Speed							
		19t	19.5t	20t	20.25t	21t	21.75t	23t	25t
Freight (c, g, l, m)	A	80							
	B	80	80	80	80	80			
	C	80	80	80	80	80	70 75 (o)	50	
	D	80							
	E	80	80	80	80	80			
	F	80	80	80	80	80	70 75 (o)	50	
Locomotives (a) (c)	Load Rating	S4 – S5		S6	S7 - S13				
	Max Speed	80		70	80				
Passenger (b)	XPT	50							
	Xplorer	50							
	Other	50							

SECTION 2E	Burren Junction (see note n) – Walgett								
	SPEED CLASS	Freight Axle Load/Speed							
		19t	19.5t	20t	20.25t	21t	21.75t	23t	25t
Freight (c, g, l, m)	A	50							
	B	50	50	50	40	40			
	C	50	50	50	40	40	35	25	
	D	50							
	E	50	50	50	40	40			
	F	50	50	50	40	40	35	25	
Locomotives (a) (c)	Load Rating	S4 – S6		S8	S9 – S13				
	Max Speed	35		40	50				
Passenger (b)	XPT	50							
	Xplorer	50							
	Other	50							

SECTION 2F	Burren Junction (649.340 km) – Merrywinebone								
	SPEED CLASS	Freight Axle Load/Speed							
		19t	19.5t	20t	20.25t	21t	21.75t	23t	25t
Freight (c)	A	30							
	B	30							
	C	30							
	D	30							
	E	30							
	F	30							
Locomotives (c)	Load Rating	S12	S13						
	Max Speed	25	30						
Passenger (b)	XPT	30							
	Xplorer	30							
	Other	30							

NOTES:

- 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) Passenger trains are not permitted to operate on this track section unless authorised by the CRN Access Manager.
- c) Rolling Stock covered by "Note R9" in Section 10 of the General Instruction Pages are not permitted to operate on this corridor with the exception of those locomotives identified under "Note R9".
- g) Only vehicles covered by Note R16 in Section 10 of the TOC Manual
- l) 25 tonne axle loads are permitted in the Narrabri West area between the ARTC borders on the North and South Triangle Loops and the Shunt Limit Board at 567.910km, via the Main line and Nos 1 and 2 roads.
- m) Axle loads up to 21 tonne permitted in accordance with Note R20 in Section 10 of the TOC Manual

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- n) A notice board applying to the Branch line, **MAINLINE LOCOS AND WAGONS OVER 76 TONNE NOT PERMITTED BEYOND THIS POINT**, is located at 649.340 km on the Up side of Baradine-Collarenebri Road level crossing.
- o) Only vehicles covered by Note R24 in Section 10 of the TOC Manual

DOWN LOADS & CONDITIONS		LOCOMOTIVE LOAD/ SPEED CAT.	LOCOMOTIVES				TRAIN DATA			NOTES
			ONE	TWO	THREE	FOUR	MAX TRAIN SPEED	SECTION RUN TIMES	WAGON AXLE LOADING	
SECTIONS		TRAILING LOAD (tonnes)								
1	NARRABRI JCT-WALGETT	L13/S12	500	1000			80-80-50	1	19.5	
2	NARRABRI JCT-WALGETT	L13/S13	500	1000			80-80-50	1	19.5	
3	NARRABRI JCT-WALGETT	L10-L12/S8-S9	1000	2000			80-80-50	1	19.5	
4	NARRABRI JCT-WALGETT	L7/S8	1000	2000			80-80-50	1	19.5	
5										
6	NARRABRI JCT-WALGETT	L4-L9/S5-S6	1000	2000			50-50-25	2	23.0	(a)
7	NARRABRI JCT-WALGETT	AC6/S5	1200	2400			50-50-25	2	23.0	(a)
8	NARRABRI JCT-WEE WAA	L2/S4	1000	2000			50-50-25	2	23.0	(a)
9										
10	NARRABRI JCT-WALGETT	AC6/S5	5283	(10566)			80-80-35	3	21.0	(a)
11	NARRABRI JCT-WALGETT	L3/S5	4274	(8548)			80-80-35	3	21.0	(a)
12	NARRABRI JCT-WALGETT	L4/S5	4044	(8088)			80-80-35	3	21.0	(a)
13	NARRABRI JCT-WALGETT	L5/S5	3809	(7618)			80-80-35	3	21.0	(a)
14	NARRABRI JCT-WALGETT	L6/S5	3369	(6738)			80-80-35	3	21.0	(a)
15	NARRABRI JCT-WALGETT	L7/S5	3274	(6548)			80-80-35	3	21.0	
16	NARRABRI JCT-WALGETT	L8/S5	3199	(6398)			80-80-35	3	21.0	(a)
17	NARRABRI JCT-WALGETT	L9/S6	2761	5522			80-80-35	3	21.0	
18	NARRABRI JCT-WALGETT	L7/S8	3274	(6548)			80-80-40	3	21.0	
19	NARRABRI JCT-WEE WAA	L2/S4	4624	(9248)			80-80-35	3	21.0	
20										
21	NARRABRI JCT-WALGETT	L9/S8	2761	5522			80-80-50	4	19.5	
22	NARRABRI JCT-WALGETT	L10/S9	2658	5316			80-80-50	4	19.5	
23	NARRABRI JCT-WALGETT	L11/S8	2452	4904			80-80-50	4	19.5	
24	NARRABRI JCT-WALGETT	L12/S9	2288	4576			80-80-50	4	19.5	
25										
26	NARRABRI JCT-WALGETT	L12-L13/S12-S13	2100	4200			80-80-50	5	19.5	
27										
28	BURREN JCT-MERRYWINEBONE	L13/S13	2100	4200			30	1	19.0	
29	BURREN JCT-MERRYWINEBONE	L13/S12	2100	4200			25	2	19.0	

(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.

DOWN SECTIONS	SECTIONAL RUNNING TIMES						FULL SECTIONAL LOADS LOCOMOTIVE LOAD CATEGORIES													GRADE	
	1	2	3	4	5	Light engine	AC6	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13		
NARRABRI JCT	☺	☺	☺	☺	☺	S4-S7/S8-S12/S13	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
NARRABRI WEST	3	3	3	3	3	3/3/3	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	2100	Level
CULGOORA	19	23	19	19	19	24/21/16	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	2100	Level
WEE WAA	14	20	14	14	14	20/17/13	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	2100	Level
MERAH NORTH	18	20	18	18	18	19/17/14	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	2100	Level
BURREN JCT	39	46	39	39	39	44/38/29	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	2100	Level
CRYON	49	96	61	49	49	60/48/48	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	2100	Level
BEANBRI	27	54	34	27	27	34/27/27	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	2100	Level
WALGETT	35	69	44	35	35	44/34/34	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	2100	Level
Totals	204	331	232	204	204	248/205/184															

BURREN JCT	☺	☺				S12/S13	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
OLD BURREN	47	54				50/42	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	2100	Level
ROWENA	35	43				41/35	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	2100	Level
MERRYWINEBONE	38	46				45/37	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	2100	Level
Totals	120	143				136/114															

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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)							
	SECTIONS									
1	WALGETT-NARRABRI JCT	AC6/S5	5283	10566			50-50-25	1	23.0	(a)
2	WALGETT-NARRABRI JCT	L3/S5	4274	8548			50-50-25	1	23.0	(a)
3	WALGETT-NARRABRI JCT	L4/S5	4044	8088			50-50-25	1	23.0	(a)
4	WALGETT-NARRABRI JCT	L5/S5	3809	7618			50-50-25	1	23.0	(a)
5	WALGETT-NARRABRI JCT	L6/S5	3369	6738			50-50-25	1	23.0	(a)
6	WALGETT-NARRABRI JCT	L7/S5	3274	6548			50-50-25	1	23.0	
7	WALGETT-NARRABRI JCT	L8/S5	3199	6398			50-50-25	1	23.0	(a)
8	WALGETT-NARRABRI JCT	L9/S6	2761	5522			50-50-25	1	23.0	
9	WALGETT-NARRABRI JCT	L7/S8	3274	6548			50-50-25	1	23.0	
10	WALGETT-NARRABRI JCT	L2/S4	4624	9248			50-50-25	1	23.0	
11										
12	WALGETT-NARRABRI JCT	L9/S8	2761	5522			80-80-50	2	19.5	
13	WALGETT-NARRABRI JCT	L10/S9	2658	5316			80-80-50	2	19.5	
14	WALGETT-NARRABRI JCT	L11/S8	2452	4904			80-80-50	2	19.5	
15	WALGETT-NARRABRI JCT	L12/S9	2288	4576			80-80-50	2	19.5	
16										
17	WALGETT-NARRABRI JCT	L12-L13/S12-S13	2100	4200			80-80-50	3	19.5	
18										
19	MERRYWINEBONE-BURREN JCT	L13/S13	2100	4200			30	1	19.0	
20	MERRYWINEBONE-BURREN JCT	L13/S12	2100	4200			25	2	19.0	

(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.

UP	SECTIONAL RUNNING TIMES										FULL SECTIONAL LOADS										GRADE
	LOCOMOTIVE LOAD CATEGORIES																				
	SECTIONS	1	2	3			Light engine	AC6	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	
WALGETT	☺	☺	☺			S4-S7/S8-S12/S13	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
BEANBRI	71	37	37			44/35/35	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	Level	
CRYON	56	27	27			34/27/27	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	Level	
BURREN JCT	98	48	48			60/48/48	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	Level	
MERAH NORTH	46	45	45			44/38/30	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	Level	
WEE WAA	21	21	21			20/17/14	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	Level	
CULGOORA	21	21	21			20/17/14	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	Level	
NARRABRI WEST	22	22	22			24/21/17	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	Level	
NARRABRI JCT	3	3	3			3/3/3	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	Level	
Totals	338	224	224			249/206/188															
MERRYWINEBONE	☺	☺				S12/S13	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		
ROWENA	41	48				45/38	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	Level	
OLD BURREN	37	43				41/35	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	Level	
BURREN JCT	48	53				50/42	5283	4624	4274	4044	3809	3369	3274	3199	2761	2658	2452	2288	2100	Level	
Totals	126	144				136/115															

Narrabri Junction to Walgett - Loops and Sidings

Location	Nominal Kilometrage	Road Name	Train Capacity (m)	Track Access		
				Maximum Locomotive	Maximum Freight Wagon	Track Vehicle Only
				"S" Type	Axle Load	
NARRABRI JUNCTION		North Triangle		S4	25	
		South Triangle		S4	25	
NARRABRI WEST	565.770	No 1 Road Siding	1018	S4	25	
		No 2 Road Siding		S4	25	
		No 3 Road Siding	Main	S4	25	
		Sleeper Road	314		Private	
		Fuel Road	115		Private	
		No A Siding	224		Private	
		No B Siding	224		Private	
		No 4 Road	318		Private	
CULGOORA	583.441	No 5 Road	783		Private	
		Loop	338	S4	23	
WEE WAA	598.959	Loop	1085	S4	23	
		Namoi Cotton			Private	
MERAH NORTH	613.803	Loop	906	S4	23	
BURREN JUNCTION	647.966	Grain Siding Loop	1436	S4	23	
		Perway Siding	63	N/A	N/A	✓
CRYON	684.771	Grain Siding	260	S4	23	
BEANBRI	705.550	Perway Spur	67	S4	23	
WALGETT WHEAT	731.981	No 1 Grain Siding	914	S4	23	
		No 2 Grain Siding	914	S4	23	

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