

2006/2007 NSW Lease Annual Condition Report



Exe	cutive Summary	3
(a)	Material Changes in Condition	3
(b)	Performance against KPI's	3
(c)	Register of ARTC Infrastructure	5
1.	Material Changes in Condition	6
2.	Performance Against KPI's	6
(a)	Total Transit Time Delay, by KPI Region, by month	6
(b)	Five Year Rolling Average of Total Transit Time Delay	7
(c)	 Track Geometry i. Geometry Values ii. Five Year Rolling Average for each Top Value, Line Value, Twist Value, and Gauge Value iii. Trending Graphs	8 9
(d)	Three-Year Rolling Average of Large Rail Defects	
(e)	i. New Sleepers installed on the four regions of the KPI Network excluding the Hunter Valley (Schedule 2.2(e)) ii. Sleeper Type on the four regions of the KPI Network on the last day of the ACR period (including sleeplaced during the reporting period)	e 7, Cl 14 epers
(<i>f</i>)	Bridges	
	 Length of Bridges Replaced during Annual Condition Reporting period Percentage of Bridges for which repair work warrants a Temporary Speed Restriction, or a reduction in permitted axle load on the last day of the ACR period. Bridge Type on the entire KPI Network on the last day of the ACR period. 	n 15 15
(g)	i. Total signal failures per month for the KPI Network (excluding level crossings)	
(h)	Percentage of Healthy Trains Achieving On-Time Exit, on the KPI Network, by month i. Scope of Measured Services (5.1) ii. Measurement and Calculation (5.2)	17
<i>(i)</i>	Maximum allowable speed and axle load combination applying on the KPI Network	20
<i>(j)</i>	Permitted Permanent Speed Restrictions	21
3.	Register of ARTC Infrastructure.	22
(a)	Building Works added to Assets Register during 2006/07	22
4.	Infrastructure Investment Program - Major Works	23
<i>(b)</i>	Major Works Investment Program	23
(c)	Corridor Works Summary	23
(d)	Major Works Underway - Indicative Cash Flow	24
5.	Addendum – Revised TQI Calculation Proposal	27
(a)	Introduction	27
(b)	Risk	28
(c)	Detail of Proposal	28
(d)	Effect of Proposed Changes on KPI Targets	
Prop	posed Geometry KPI Targets	29
Effe	cts on Trending Graphs	30



Executive Summary

In accordance with the lease, this document presents the Annual Condition Report for NSW Lease Assets. This third report covers the period July 2006 to June 2007. September 2004 being the commencement of the lease.

(a) Material Changes in Condition

There have been no adverse changes in the general condition of the Land, the Infrastructure and the ARTC Infrastructure during the period covered by this Annual Condition Report.

(b) Performance against KPI's

Total Transit Time Delay, by KPI region, by month (Schedule 7, Cl 2.2(a))

The Annual Limit was met for the KPI Network for all train categories.

No adjustments due to Force Majeure incidents or increased maintenance were made to the results for 2006/07.

Where applicable, adjustments are made to account for Force Majeure or increased maintenance when KPI's are exceeded, otherwise these impacts are ignored.

Five Year Rolling Average of Total Transit Time Delay (Schedule 7, Cl 2.2(b))
As this is only the third year of the lease, the Five Year Rolling Average of Total Transit Time Delay will not yet be reported.

Track Geometry (Schedule 7, Cl 2.2(c))

No Geometry measures for Top, Twist, Line and Gauge exceeded the Annual Limits, calculated as per Schedule 7, section 4.1 and 4.2.

As this is only the third year of the lease, the Five Year Rolling Average of the Track Geometry measures will not yet be reported.

Three-Year Rolling Average of Large Rail Defects (Schedule 7, Cl 2.2(d))

The Three-Year Rolling Average for Large Rail Defects was 39.4. This is within the limit of 48.86, calculated as per Schedule 7, section 11.4



NSW Annual Condition Report (July 06 to June 07)

New Sleepers on KPI Network, excluding the Hunter Valley (Schedule 7, Cl 2.2(e))

A total of 359,790 sleepers (Timber – 127497; Steel – 22958; Concrete – 209335 and Other - 0) were installed during the reporting period. The Network including the sleepers replaced, now consists of Timber 63.6%, Steel 10.9%, Concrete 25.5% and Other 0.0%.

Bridges (Schedule 7, Cl 2.2(f))

2 bridges totalling 212.2m have been replaced with 2 concrete structures totalling 212.0m during the reporting period. This has resulted in a net change to the bridge type and length, from the original list supplied at the date of commencement of the lease.

Currently 7 Bridges are under restriction, which is below the Bridge Limit of 20

Signals (Schedule 7, Cl 2.2(g))

The total number of signal failures on the KPI network for each month has been provided.

Percentage of Healthy Trains Achieving On-Time Exit, by month (Schedule 7, Cl 2.2(h))

As required by clause 5.2, ARTC has measured the full journey performance of services on the ARTC network (including the NSW Lease network).

The measurement of ARTC's service reliability has been calculated to reflect -

- 1. the full journey performance of all services (including performance on the CRN network); and
- 2. the full journey performance of all services (excluding those originating or terminating on the CRN Network)

The YTD Monthly Average % of Healthy Services Achieving On-time Exit (July 2006 – June 2007) is:

- 94.2% (including CRN Network performance) against a Service Reliability result of 91.6%. This result is calculated as per lease schedule 7.3 (a) 'Service Reliability Limit' as being the monthly average of Percentage of Healthy Trains Achieving on Time Exit for the year ending 12 months after the lease commencement date (September 2004 to August 2005).
- 2. 96.8% (excluding CRN Network originating/terminating services) against a Service Reliability limit of 94.0%. As above, the limit is calculated as per lease schedule 7.3 (a) 'Service Reliability Limit'.



Maximum allowable speed and axle load combinations applying to the KPI Network (Schedule 7, CI 2.2(i))

Since the commencement of the Lease there has been no change in the maximum allowable speed and axle load combinations on the KPI network.

Permitted Permanent Speed Restrictions (Schedule 7, Cl 2.2(j))

7 Permanent Speed restrictions were changed between July 2006 and June 2007. They are regarded as Permitted Permanent Speed Restrictions as they have the effect of reducing the Base Transit Time.

(c) Register of ARTC Infrastructure

Building Works

During the reporting period, a total of \$3,698,165 of Building Works was completed.

Infrastructure Investment Programme and Major Works

A total of \$324,507,000 was invested on the Major Works Investment Program during the reporting period. The following Projects are included in the total spend and were commenced during the period covered by this report;

- North Coast Improvement Works
- Main South Improvement Works
- Hunter Valley Improvement Works
- Train Control Consolidation

A total of \$134,569,000 has been invested in Corridor Works (including RCRM, MPM and Corridor Capital Works) during the reporting period.

A further \$884,661,000 will be invested on Major Works in future years.

Summary of Major	Summary of Major Works Investment and Corridor MPM & Capital since lease commencement										
	2004 / 05 (from Lease Commencement Date)	2005/06	2006/07	Total							
Major Works Investment	\$5,695,500	\$83,518,000	\$324,507,000	\$413,720,500							
Corridor MPM & Capital	\$58,869,000	\$97,234,000	\$94,685,000	\$250,788,000							
Total	\$64,564,500	\$180,752,000	\$419,192,000								



NSW Annual Condition Report (July 06 to June 07)

1. Material Changes in Condition

There have been no adverse changes in the general condition of the Land, the Infrastructure and the ARTC Infrastructure during the period covered by this Annual Condition Report.

2. Performance Against KPI's.

(a) Total Transit Time Delay, by KPI Region, by month

This section deals with transit time reporting as required under Schedule 7, section 2.2(a) of the lease. The information has been presented in two tables. The first table includes all Temporary Speed Restrictions. The second table excludes abnormal events identified as Force Majeure and Increased Maintenance (none were excluded for 06/07) as KPI's were not exceeded. Line closures due to significant flooding in the Hunter Valley during June 2007 did not impact on Transit Time results and therefore have not been excluded. Limited services were running within 7 days with full services restored after 14 days.

Includ	ing F	orce	Мај	eure	and I	ncre	ased	Main	tenan	ce E	vents	;				
Category	Jul-2006	Aug-2006	Sep-2006	Oct-2006	Nov-2006	Dec-2006	Jan-2007	Feb-2007	Mar-2007	Apr-2007	May-2007	Jun-2007	04/05 Period Avg (incl Force Majeure)	05/06 Period Avg (incl Force Majeure)	06/07 Period Avg (no Force Majeure)	Annual Limit*
								Hun	ter Valle	у						
Freight	3.6	2.2	12.6	7.4	4.1	3.1	4.1	6.0	24.6	9.8	5.2	7.1	9.6	7.4	7.5	12.2*
Super Freight	7.7	5.2	19.8	10.5	7.5	5.0	6.6	9.5	39.9	18.8	7.3	10.8	17.3	10.6	12.4	21.6*
XPT	1.1	1.1	10.5	5.0	0.8	0.0	0.0	0.0	12.0	3.8	2.7	3.6	5.8	5.2	3.4	3.7*
	North Coast															
Freight	5.1	10.1	6.7	10.9	16.2	5.6	6.0	11.3	14.2	15.6	16.5	6.5	20.7	12.2	10.4	42.6*
Super Freight	11.5	18.3	13.8	21.6	28.3	10.9	11.7	21.2	23.6	25.5	25.5	11.7	33.3	21.9	18.6	68.1*
XPT	4.7	7.6	6.3	8.7	9.8	5.0	5.4	8.5	10.3	10.9	10.2	4.0	12.0	8.1	7.6	21.0*
									South							
Freight	6.4	7.8	8.9	15.0	15.0	10.1	12.1	9.6	8.3	5.8	4.4	10.1	12.6	11.4	9.4	16.4*
Super Freight	11.0	13.8	15.9	25.0	23.9	18.0	21.6	17.9	16.0	11.0	7.2	15.6	23.0	21.2	16.4	30.5*
XPT	3.3	4.8	4.8	14.8	12.6	7.3	7.6	6.2	4.9	3.7	1.9	3.3	8.0	9.5	6.3	10.1*
									West							
Freight	16.2	18.1	23.4	17.4	7.0	19.0	10.7	29.2	27.4	19.9	10.8	7.9	27.4	20.9	17.2	27.0*
Super Freight	30.1	39.5	49.0	31.5	16.8	31.3	25.9	68.9	57.4	37.5	20.3	16.0	54.9	42.5	35.3	45.2*
XPT	9.8	11.9	26.7	19.0	4.8	12.7	6.7	22.5	13.1	4.5	2.7	2.7	20.1	17.0	11.4	14.6*
								-	Γotals							
Freight	31.3	38.2	51.6	50.7	42.2	37.7	32.9	56.1	74.4	51.1	36.9	31.6	70.3	51.9	44.6	98.1*
Super Freight	60.4	76.8	98.6	88.6	76.5	65.2	65.7	117.6	136.8	92.8	60.2	54.1	128.4	96.2	82.8	165.4*
XPT	18.9	25.3	48.3	47.5	27.9	25.1	19.7	37.2	40.4	22.8	17.5	13.5	45.8	39.8	28.7	49.4*

^{*} Annual Limit as agreed between ARTC and RIC.



NSW Annual Condition Report (July06 to Jun07)

Exclud	ding	Force	е Мај	jeure	and	Incre	easec	l Mair	ntenar	nce E	vent	S				
Category	Jul-2006	Aug-2006	Sep-2006	Oct-2006	Nov-2006	Dec-2006	Jan-2007	Feb-2007	Mar-2007	Apr-2007	May-2007	Jun-2007	04/05 Period Avg (excl Force Majeure)	05/06 Period Avg (excl Force Majeure)	06/07 Period Avg (no Force Majeure excluded)	Annua Limit*
								Hur	nter Valle	Эy				-		
Freight	3.6	2.2	12.6	7.4	4.1	3.1	4.1	6.0	24.6	9.8	5.2	7.1	9.6	7.4	7.5	12.2*
Super Freight	7.7	5.2	19.8	10.5	7.5	5.0	6.6	9.5	39.9	18.8	7.3	10.8	17.3	10.6	12.4	21.6*
XPT	1.1	1.1	10.5	5.0	8.0	0.0	0.0	0.0	12.0	3.8	2.7	3.6	5.8	5.2	3.4	3.7*
								No	rth Coas	t						
Freight	5.1	10.1	6.7	10.9	16.2	5.6	6.0	11.3	14.2	15.6	16.5	6.5	20.7	12.2	10.4	42.6*
Super Freight	11.5	18.3	13.8	21.6	28.3	10.9	11.7	21.2	23.6	25.5	25.5	11.7	33.3	21.9	18.6	68.1*
XPT	4.7	7.6	6.3	8.7	9.8	5.0	5.4	8.5	10.3	10.9	10.2	4.0	12.0	8.1	7.6	21.0*
									South							
Freight	6.4	7.8	8.9	15.0	15.0	10.1	12.1	9.6	8.3	5.8	4.4	10.1	12.6	11.4	9.4	16.4*
Super Freight	11.0	13.8	15.9	25.0	23.9	18.0	21.6	17.9	16.0	11.0	7.2	15.6	23.0	21.2	16.4	30.5*
XPT	3.3	4.8	4.8	14.8	12.6	7.3	7.6	6.2	4.9	3.7	1.9	3.3	8.0	9.5	6.3	10.1*
									West							
Freight	16.2	18.1	23.4	17.4	7.0	19.0	10.7	29.2	27.4	19.9	10.8	7.9	23.5	17.8	17.2	27.0*
Super Freight	30.1	39.5	49.0	31.5	16.8	31.3	25.9	68.9	57.4	37.5	20.3	16.0	49.7	36.5	35.3	45.2*
XPT	9.8	11.9	26.7	19.0	4.8	12.7	6.7	22.5	13.1	4.5	2.7	2.7	15.7	12.6	11.4	14.6*
									Totals							
Freight	31.3	38.2	51.6	50.7	42.2	37.7	32.9	56.1	74.4	51.1	36.9	31.6	66.3	48.8	44.6	98.1*
Super Freight	60.4	76.8	98.6	88.6	76.5	65.2	65.7	117.6	136.8	92.8	60.2	54.1	123.3	90.2	82.8	165.4*
XPT	18.9	25.3	48.3	47.5	27.9	25.1	19.7	37.2	40.4	22.8	17.5	13.5	41.5	35.4	28.7	49.4*

^{*} Annual Limit as agreed between ARTC and RIC.

The Annual Limit, has been met for the KPI Network for all train categories. No adjustments due to Force Majeure incidents or increased maintenance were made to the results for 2006/07.

(b) Five Year Rolling Average of Total Transit Time Delay

As this is only the third year of the lease, the Five Year Rolling Average of Total Transit Time Delay will not yet be reported. This will be reported in later years as data is accumulated.

(c) Track Geometry

i. Geometry Values

No geometry measures exceeded the Annual Limits, and track geometry improved in 9 of the 16 measures during 06/07.

South

Region	Measure	Annual Limit *	04/05	05/06	06/07	06/07 vs Annual Limit
South	Тор	8.55 *	7.77	7.09	6.72	TARGET MET
	Twist	7.84 *	7.45	7.15	7.35	TARGET MET
	Line	10.20 *	9.29	8.31	8.33	TARGET MET
	Gauge	6.48 *	6.07	6.01	5.89	TARGET MET

North Coast

Region	Measure	Annual Limit *	04/05	05/06	06/07	06/07 vs Annual Limit
North	Тор	7.04 *	5.79	5.12	5.02	TARGET MET
	Twist	7.54 *	6.38	6.02	6.02	TARGET MET
	Line	13.52 *	11.79	11.15	11.11	TARGET MET
	Gauge	6.89 *	6.73	6.62	6.47	TARGET MET

West

Region	Measure	Annual Limit	04/05	05/06	06/07	06/07 vs Annual Limit
West	Тор	9.10 *	8.98	8.43	8.27	TARGET MET
	Twist	8.15 *	7.79	7.93	7.48	TARGET MET
	Line	8.31 *	7.79	5.85	6.49	TARGET MET
	Gauge	5.83 *	4.56	4.62	4.63	TARGET MET

Inland Route

Region	Measure	Annual Limit	04/05	05/06	06/07	06/07 vs Annual Limit
Inland	Тор	9.98 *	8.99	8.15	8.57	TARGET MET
	Twist	9.30 *	8.77	8.67	8.91	TARGET MET
	Line	10.79 *	8.99	8.26	8.32	TARGET MET
	Gauge	6.46 *	5.86	5.97	5.85	TARGET MET

^{*} Annual Limit as agreed between ARTC and RIC.



ii. Five Year Rolling Average for each Top Value, Line Value, Twist Value, and Gauge Value.

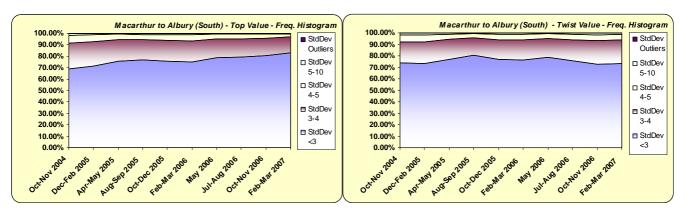
As this is only the third year of the lease, the Five Year Rolling Average of Track Geometry will not yet be reported. This will be reported in later years as data is accumulated.

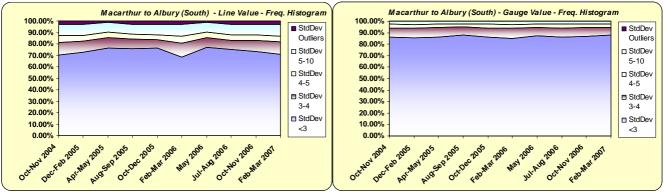
iii. Trending Graphs

The trending graphs consist of all geometry readings taken for a KPI region up to 30 June 2007. A rising slope in the graph shows an improvement in track geometry.

South (July 2006 to June 2007)

South (May 06)	StdDev <3	StdDev 3-4	StdDev 4-5	StdDev 5-10	StdDev Outliers
Тор	83.04%	13.70%	2.76%	0.50%	0.00%
Twist	73.09%	20.56%	5.17%	1.18%	0.00%
Versine	70.68%	10.92%	5.15%	10.17%	3.08%
Gauge	87.81%	6.99%	2.86%	2.30%	0.04%



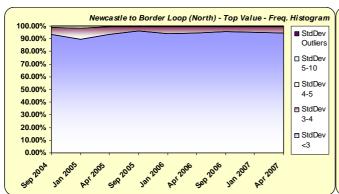


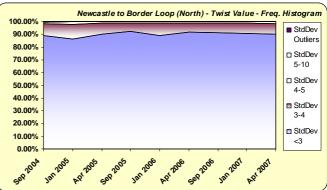


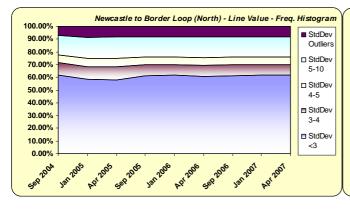
NSW Annual Condition Report (July06 to June07)

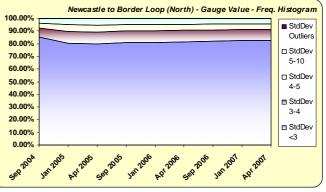
North Coast (July 2006 to June 2007)

North Coast (Apr 06)	StdDev <3	StdDev 3-4	StdDev 4-5	StdDev 5-10	StdDev Outliers
Тор	94.62%	4.76%	0.57%	0.05%	0.00%
Twist	90.24%	8.26%	1.29%	0.20%	0.00%
Versine	61.96%	7.93%	5.97%	15.77%	8.37%
Gauge	82.76%	8.69%	4.38%	4.14%	0.03%







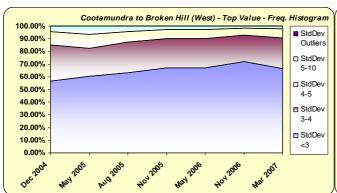


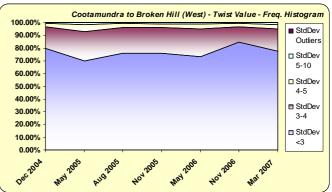


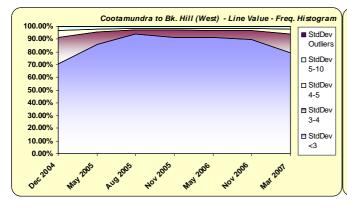
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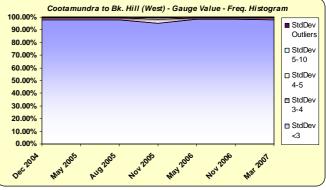
West (July 2006 to June 2007)

West (May 06)	StdDev <3	StdDev 3-4	StdDev 4-5	StdDev 5-10	StdDev Outliers
Тор	66.71%	23.82%	7.25%	2.22%	0.00%
Twist	77.74%	17.15%	3.70%	1.40%	0.00%
Versine	79.22%	14.83%	3.91%	1.92%	0.13%
Gauge	98.02%	1.44%	0.38%	0.15%	0.01%







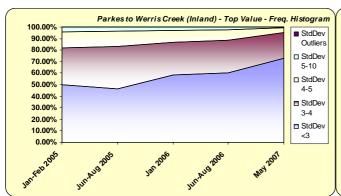


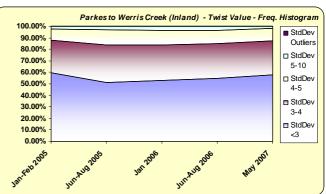


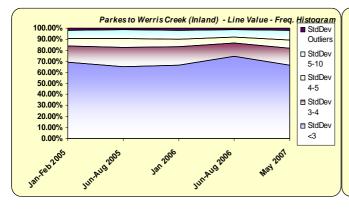
NSW Annual Condition Report (July06 to June07)

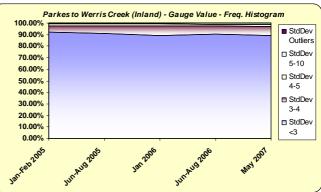
Inland Route (July 2006 to June 2007)

Inland (June 2006)	StdDev <3	StdDev 3-4	StdDev 4-5	StdDev 5-10	StdDev Outliers
Тор	73.00%	21.92%	4.46%	0.62%	0.00%
Twist	57.77%	29.75%	10.56%	1.91%	0.00%
Versine	66.40%	15.17%	7.93%	8.60%	1.88%
Gauge	89.44%	7.69%	1.91%	0.94%	0.02%









(d) Three-Year Rolling Average of Large Rail Defects

Large Rail Defects

Shown below is the Three –Year Rolling Average of Large Rail Defects occurring on the four KPI regions. All years record the non-Vertical and Vertical Split Head defects. The large rail defect limit of 48.86 (as per correspondence of October 2005) was not exceeded.

	02/03	03/04	04/05	05/06	06/07	3 Year Rolling Average
Inland	4	1	1	4	0	1.7
North	38	4	9	11	14	11.3
South	25	22	25	18	31	24.7
West	8	7	0	1	4	1.7
Total	75	34	35	34	49	39.4

The three year rolling average has increased from 34.3 in 2004/2006 to 39.4 in 2006/2007 but is still below the 2004/2005 three year rolling average of 48.86

(e) Cumulative Number of Sleepers replaced

i. New Sleepers installed on the four regions of the KPI Network excluding the Hunter Valley (Schedule 7, CI 2.2(e))

	04/05	05/06	06/07	
Timber	49,678	181,872	127,497	
Steel	teel 2,618		22,958	
Concrete	532	11,622	209,335	
Other 0		0	0	

ii. Sleeper Type on the four regions of the KPI Network on the last day of the ACR period (including sleepers replaced during the reporting period)

	04/05	05/06	06/07
Timber	67.4%	67.3%	63.6%
Steel	11.1%	11.0%	10.9%
Concrete	21.5%	21.7%	25.5%
Other	0.0%	0.0%	0.0%

(f) Bridges

i. Length of Bridges Replaced during Annual Condition Reporting period

2 bridges (1 steel & 1 Iron) totalling 212.2m have been replaced with 2 concrete structures totalling 212.0m during the reporting period. This has resulted in a net change to the bridge type and length, from the original list supplied at the date of commencement of the lease.

ii. Percentage of Bridges for which repair work warrants a Temporary Speed Restriction, or a reduction in permitted axle load on the last day of the ACR period.

Temporary Speed Restrictions are applied to 7 Bridges, well below the Bridge Limit of 20.

	Number of Speed Restricted Bridges								
	04/05 Total Length(m)	04/05 No of Bridges:	05/06 Total Length(m)	05/06 No of Bridges:	06/07 Total Length(m)	06/07 No of Bridges:	% of Bridges:		
Timber	0	0	0	0	50.0	1	5.88%		
Iron	145.2	1	145.2	1	145.2	1	33.33%		
Masonry	0	0	0	0	0		0%		
Steel	496.8	3	668.9	4	871.4	5	1.47%		
Concrete	0	0	0	0	0		0%		
Other (incl. brick)	0	0	0	0			0%		
Total	642.0	4	814.1	5	1066.6	7	0.88%		

iii. Bridge Type on the entire KPI Network on the last day of the ACR period.

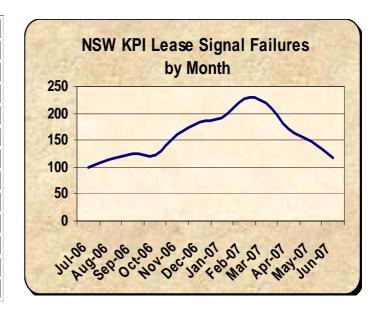
Summary of KPI Network Bridge Types								
	04/05 Total Length(m)	04/05 No of Bridges:	05/06 Total Length(m)	05/06 No of Bridges:	06/07 Total Length(m)	06/07 No of Bridges:		
Timber	264.7	17	264.7	17	264.7	17		
Iron	460.5	4	460.5	4	260.5	3		
Masonry	54.9	1	54.9	1	54.9	1		
Steel	17233.4	347	17205.4	342	17193.2	341		
Concrete	4582.8	405	4630.0	410	4842.0	412		
Other (incl. brick)	946.6	24	946.6	24	946.6	24		
Total	23542.9	798	23562.1	798	23561.9	798		



(g) Signal failures, by month

i. Total signal failures per month for the KPI Network (excluding level crossings)

	04/05	05/06	06/07
July	-	102	100
Aug	-	86	116
Sept	43	82	125
Oct	88	120	122
Nov	89	124	161
Dec	105	136	183
Jan	111	171	191
Feb	110	153	227
Mar	99	111	220
Apr	71	107	172
May	109	112	148
Jun	88	118	118



For completeness, the revised numbers for previous years have been updated with the latest available data.



NSW Annual Condition Report (July06 to June07)

Percentage of Healthy Trains Achieving On-Time Exit, on the KPI Network, by month

i. Scope of Measured Services (5.1)

Application of this clause 5 will be to all Trains that are contracted to a scheduled train path and which pass across a part of the KPI Network.

All scheduled ARTC services which pass across a part of the KPI Network, (ie the South, West, Inland route and North Coast regions) have been included in the

Trains contracted to a scheduled train path are those that have a network entry and exit location and time specified in an Access Agreement.

> ARTC contracted scheduled services that have a network entry/exit location and time specified have been included in the report.

Trains operating under cyclic arrangements such as those carrying coal are not subject to the application of this measure.

> The cyclical services referred to in clause 5.1 (c) have been excluded from the measurement.

ii. **Measurement and Calculation (5.2)**

(a) For each month, ARTC will, in accordance with clause 5.2(b), identify Trains as a Healthy Train or otherwise and Healthy Trains as achieving On Time exit or otherwise. ARTC will calculate Percentage of Healthy Trains Achieving On Time Exit in accordance with clause 5.2(f) of this Schedule 7.

Refer to the Graphs below.

A "Healthy Train" means a Train that, having regard to the Daily Train Plan applicable on the day:

> presents to the ARTC network On Time, is configured to operate to its schedule and operates in a way that it remains able to maintain its schedule;

is running late only due to causes within the ARTC network but only where the root cause is not due to:

any act or omission of an Access Purchaser; or any defect, breakdown or other failure of any Train or Rolling Stock; or is running On Time, regardless of previous delays.

The services measured meet the criteria of a Healthy Train service as per clause 5.2 (b).



- "On Time" means scheduled time at a location including a fifteen minute tolerance.

 On-time performance for all services measured are in accordance with the definition of 'On-time'
- Measurement will be undertaken using ARTC's access management system.
 The services measured have been calculated using ARTC's access management system
- The identification of a Train as a Healthy Train or otherwise, and the identification of a
 Healthy Train as achieving On Time Exit will be made having regard to performance with
 respect to a scheduled train path as it exists over the whole of the ARTC network, including
 that subject to this Deed. As such, exit performance of a Train will be measured at the
 location where the Train exits the ARTC network, including that subject to this Deed.

As defined by clause 5.2 (e), ARTC has measured the full journey performance of services on the ARTC network (incl the NSW Lease network).

For example, a Sydney – Melbourne service is considered to exit the ARTC Network at Dynon and conversely will enter the ARTC Network at Dynon for Melbourne – Sydney services.

The graphs below illustrate the KPI performance for July 2006 – June 2007.

Graph 1: shows the full journey performance of all services (including performance on the CRN network),

Graph 2: shows the full journey performance of all services (excluding those originating or terminating on the CRN Network)

• **(b)** "Percentage of Healthy Trains Achieving On-Time Exit" for a month will be calculated as:

Number of Healthy Trains achieving On Time	Χ	100
exit for a month		
Number of Healthy Trains for a month.		

The % of Healthy Services achieving On-time Exit has been calculated in line with the above formula.

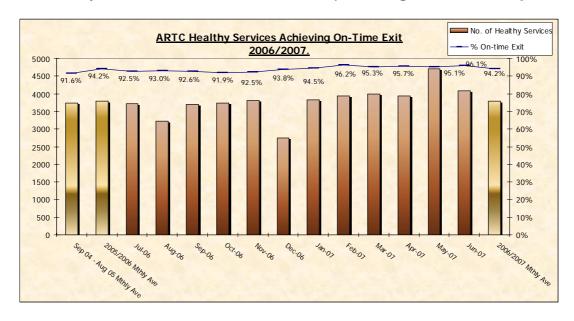
 The parties acknowledge that definition of Healthy Train in this clause 5 is intended to be consistent the definition of Healthy Train as contemplated in Access Agreements. If there is a material change in the definition of Healthy Train as contemplated in Access Agreements, ARTC and the Lessor will review the definition of Healthy Train in this clause 5.

There has been no change to the definition of a Healthy Service as contemplated in clause 5 of the Access Agreement.

The CityRail Southern Highlands passenger services have been included in the on time exit of healthy services calculation since December 2005.

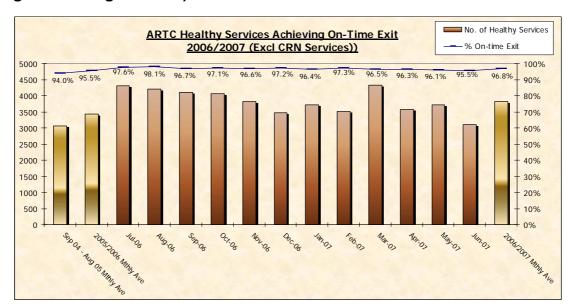
NSW Annual Condition Report (July06 to June07)

Graph 1 - All Healthy Services with an On-time Exit (including CRN Network performance):



The monthly average including CRN services for 06/07 of 94.2% exceeds the Service Reliability result of 91.6%. The result is calculated as per lease schedule 7.3 (a) 'Service Reliability Limit as being the monthly average of Percentage of Healthy Trains Achieving on Time Exit for the year ending 12 months after the lease commencement date (September 2004 to August 2005).

Graph 2 - All Healthy Services with an On-time Exit (excluding CRN Network originating/terminating services):



The monthly average excluding CRN services for 06/07 of 96.8% exceeds the Service Reliability limit of 94.0%. The limit is calculated as per lease schedule 7.3 (a) 'Service Reliability Limit' as being the monthly average of Percentage of Healthy Trains Achieving on Time Exit for the year ending 12 months after the lease commencement date (September 2004 to August 2005).



(i) Maximum allowable speed and axle load combination applying on the KPI Network

As per lease schedule 2.1 (d) (ii), the maximum allowable speed and axle load combinations applying from the lease commencement date to five years after the commencement date are to be not less than that at commencement date.

The table below describes the maximum allowable speed and axle load combination on the KPI network as at the final business day of the reporting period.

KPI Region	Segment	General Freight	Super Freighter	XPT
Inland Route	Werris Creek to The Gap	80kph @ 23 TAL	115kph @ 19.5 TAL	160kph @ 19 TAL
North Coast	Maitland to Qld Border	80kph @ 23 TAL	115kph @ 19.5 TAL	160kph @ 19 TAL
South	Macarthur to Albury	80kph @ 23 TAL	115kph @ 19.5 TAL	160kph @ 19 TAL
South	Moss Vale to Unanderra	80kph @ 23 TAL	115kph @ 19.5 TAL	NA
West	Parkes (Goobang) to Broken Hill	80kph @ 23 TAL	115kph @ 21 TAL	145kph @ 19 TAL
West	Cootamundra to Stockinbingal, Stockinbingal to Parkes (Goobang)	80kph @ 21 TAL	100kph @ 19.5 TAL	NA
Inland Route	Parkes (Goobang) to Narromine Narromine to Dubbo Dubbo to Merrygoen Gulgong to Merrygoen	80kph @ 21 TAL	100kph @ 19.5 TAL	NA
Inland Route	Merrygoen to Binnaway Binnaway to The Gap	80kph @ 21 TAL	100kph @ 19.5 TAL	100kph @ 19 TAL

Maximum allowable speed and axle load combinations for the KPI network are not less than that as at the commencement date.

(j) Permitted Permanent Speed Restrictions

- i) 7 Permanent Speed restrictions were changed between July 2006 and June 2007.
 - The following 7 permanent speed restrictions are regarded as permitted as per Schedule 7, section 1.2(aa) (i) as they have the effect of reducing the Base Transit Time.

Permanent speed restrictions were changed as a result of the following Major Works:

- Sandgate Flyover,
- Wagga Wagga Murrumbidgee Bridge replacement,
- CTC commissioning at Islington Junction and Muswellbrook to Gulgong.

All of these works have the effect of reducing transit time.

North - Broadmeadow to Brisbane Section 1B.									
Th	The following speeds were revised on 17 April 2007 due to the								
	co	mmission	ing of the S	andgate Fly	over.				
	Do	wn	U	р					
km	Norm	XPT	Norm	XPT	Comment				
168.090	80	90	90	110	no change				
169.000	X25				inserted				
169.214	115	140	110	120	inserted				
170.110	115	120	80	90	deleted				
170.738			115	140	inserted				
170.759	100	100			inserted				
171.600	115	160	115	150	deleted				
171.800			X25		inserted				
171.693	115	160	100	100	inserted				
171.930			X70		inserted				
172.060			115	115	inserted				
175.000			115	160	no change				
176.800	115	150			no change				

North - Newcastle Regional Area Section 1C.								
The	The following speeds were revised on 17 April 2007 due to the							
commissioning of the Sandgate Flyover.								
	Do		ing or the S U		over.			
				•				
km	Norm	XPT	Norm	XPT	Comment			
168.575	115	135			no change			
170.000			115	135	deleted			
170.340	100	110			deleted			
170.340	100	110	110	110	inserted			
170.790	85	90			inserted			
170.800			100	110	deleted			
171.270			85	90	inserted			
171.335			X55		inserted			
171.502			X70		inserted			
171.520	X70				inserted			
171.700	X70				inserted			
171.800	80	80			inserted			
172.000			20	110	deleted			
172.300	40	40			deleted			
172.310	115	120	110	110	inserted			
172.400			20	20	deleted			
172.630			115	120	deleted			
172.800	40	160			deleted			
172.800	115	160	115	120	inserted			
173.900	115	160			deleted			
174.200			115	160	no change			

North - Broadmeadow to Werris Creek Section 3.							
The f	The following speeds were revised on 8 September 2006 due to the						
	commissi	oning of a	utomated le	vel crossing	g equipment.		
	Do	wn	U	р			
km	Norm	XPT	Norm	XPT	Comment		
321.500			115	160	no change		
321.750	321.750 60 60 deleted						
323.500			115	160	no change		

	West - Muswellbrook to Dubbo Section 5.						
The follow	The following speeds were revised on 4 June 2007 as part of the introduction						
	of CTC Muswellbrook to Gulgong.						
	Down Up						
km	Norm	XPT	Norm	XPT	Comment		
310.160	105				no change		
313.650	85				inserted		
314.450	85				deleted		

North - Broadmeadow to Brisbane Section 1B.							
The following speeds were revised on 20 June 2007 as part of the Islington							
	Junction CTC commissioning.						
	Down			р			
km	Norm	XPT	Norm	XPT	Comment		
165.478			95	95	inserted		
166.840			115	150	no change		

	West - Cootamundra to Parkes Section 8.							
The fo	The following speeds were revised on 22 January 2007 due to bridge							
	re	enewals ar	nd level cros	ssing upgrad	les.			
	Do	wn	U	р				
km	Norm	XPT	Norm	XPT	Comment			
555.626	100		30		no change			
594.048			100		no change			
594.400			100		inserted			
594.660	90				inserted			
594.705	20				no change			
595.000	20x				inserted			
595.065			20		no change			
595.965	90				no change			
x - Level c	rossing sp	eed warni	ng sign as	per ARTC sa	afe Notice 2005, 2-116			

South - Sydney to Albury Section 1.							
The follow	The following speeds were revised on 22 January 2007 due to renewal of the						
	Murru	umbidgee	River bridge	at Wagga	Wagga.		
	Do	wn	Ŭ	р			
km	Norm	XPT	Norm	XPT	Comment		
516.520	80	80	90	110	no change		
517.900			80	80	no change		
519.200			20	80	deleted		
519.200			80	80	inserted		
519.400	20	20			deleted		
519.670			20	20	deleted		
519.870	20	80			deleted		
519.870	80	80			inserted		
520.440			80	80	no change		



3. Register of ARTC Infrastructure.

(a) Building Works added to Assets Register during 2006/07

Location	Asset No	Asset	Cost
Maitland		New Provisioning Centre	\$9,860
Newcastle		New Provisioning Centre	\$550,000
Muswellbrook		New Provisioning Centre	\$539,949
Wagga Wagga		New South / West Asset Office	\$1,400,000
Junee		Administration / Train Control Storm Repairs	\$93,000
The Rock		Station Masters Residence Garage	\$11,000
Broadmeadow	0009184	Project Office	\$28,160.00
Broadmeadow	0009185	CTC	\$63,638.60
Casino	0009289	Provisioning Centre	\$1,784.55
Goulburn	0009468	Provisioning Centre	\$196,182.64
Maitland	0009519	Provisioning Centre	\$6,250.00
Kooragang	0009612	Refurbish Admin Building	\$54,424.47
Broken Hill	0009717	Provisioning Centre	\$102,231.00
Port Waratah	0009806	Provisioning Centre	\$641,685.09
TOTAL			\$3,698,165



4. Infrastructure Investment Program - Major Works

(b) Major Works Investment Program

Major Project	2005/06	2006/07	Future Expenditure	Total Budget
North Coast Improvement Works	\$7,027,000	\$80,903,000	\$152,268,000	\$227,151,000
Main South Improvement Works	\$17,754,000	\$102,312,000	\$227,150,000	\$352,253,000
Southern Sydney Freight Lines	\$2,989,000	\$3,408,000	\$238,225,000	\$245,096,000
Western NSW Improvement Works	\$1,079,000	\$5,679,000	\$13,442,000	\$20,200,000
Hunter Valley Improvement Works	\$45,921,000	\$56,977,000	\$218,899,000	\$363,694,000
Train Control Consolidation	\$3,386,000	\$67,192,000	\$19,838,000	\$88,257,000
Wayside	\$1,508,000	\$2,407,000	\$9,242,000	\$13,095,000
Communications Upgrade		\$3,810,000	\$5,390,000	\$9,200,000
Australian Land Transport Development Funding	\$3,854,000	\$2,827,000	\$18,173,000	\$21,000,000
Plant & Equipment		\$80,903,000	\$152,268,000	\$227,151,000
Major Works Program Total	\$83,518,000	\$324,507,000	\$884,661,000	\$1,336,437,000

(c) Corridor Works Summary

	2005/06	2006/07
Corridor RCRM	\$43,894,000	\$39,884,000
Corridor MPM	\$64,184,000	\$59,088,000
Corridor Capital	\$33,050,000	\$35,597,000
Corridor Works Program Total	\$141,128,000	\$134,569,000

(d) Major Works Underway - Indicative Cash Flow

The indicative year to year cash flows for the Major Works Investment Program is detailed in the following table:

Project	2007/08	2008/09	Beyond 2009	Total Forecast
Hunter				
Ulan Line CTC	\$3,445,000			\$3,445,000
Ardglen Tunnel	\$141,000			\$141,000
Muswellbrook loop and junction	\$1,652,000			\$1,652,000
Loop Enhancements	\$12,777,000	\$7,809,000	\$3,327,000	\$23,913,000
Newdell Junction	\$4,868,000	\$1,179,000		\$6,047,000
Sandgate Grade Separation	\$477,000			\$477,000
Third Track Prov Sig – Minimbah & Nundah	\$2,720,000	\$18,456,000	\$45,915,000	\$67,091,000
Ulan Line Crossing Loops	\$4,817,000	\$19,901,000	\$14,598,000	\$39,316,000
Antiene to Grasstree Stage 1 Duplication	\$20,959,000	\$374,000		\$21,333,000
Bi-Dir. Sig - Maitland to Branxton	\$3,975,000	\$9,486,000		\$13,461,000
Ardglen to Kankool	\$3,245,000	\$9,349,000		\$12,594,000
Bi-Dir. Sig - Whittingham to Newdell		\$9,806,000	\$1,302,000	\$11,108,000
Bi-Dir. Sig - Newdell to Drayton		\$1,019,000	\$6,114,000	\$7,132,000
Drayton Junction Remodelling & Upgrade -	\$3,060,000	\$1,362,000		\$4,422,000
Bridge Strengthening - Hunter Valley	\$3,594,000			\$3,594,000
Allandale bank for 8 min headway		\$1,093,000		\$1,093,000
80km approach - Sig - Minimbah	\$6,000			\$6,000
Noise and Vibration Amelioration Works	\$470,000			\$470,000
10-minute Headway	\$1,603,000			\$1,603,000
Hunter Valley Total	\$67,809,000	\$79,834,000	\$71,256,000	\$218,899,000



NSW Annual Condition Report (July06 to June07)

North Coast	2007/08	2008/09	Beyond 2009	Total Forecast
Bridge Rehabilitation - Leeville Bridge	\$894,000			\$894,000
Bridge Rehabilitation - Two Mile Creek	\$624,000			\$624,000
Resilient Fastening	\$696,000			\$696,000
Weld Straightening - Border L - Casino	\$252,000			\$252,000
Crossing Loop Upgrades - Kungala	\$1,286,000			\$1,286,000
Crossing Loop Upgrades - Glenapp	\$1,293,000			\$1,293,000
Crossing Loop Upgrades - Bromelton	\$1,292,000			\$1,292,000
Speed Boards	\$304,000	\$456,000		\$760,000
Crossing Loop Upgrades - Paterson	\$884,000	\$84,000		\$968,000
Crossing Loop Upgrades - Killawarra	\$913,000			\$913,000
Crossing Loop Upgrades - Rappville	\$1,861,000			\$1,861,000
Crossing Loop Upgrades - Taree	\$914,000			\$914,000
Crossing Loop Upgrades - Johns River	\$910,000			\$910,000
Crossing Loop Upgrades - Kempsey	\$914,000			\$914,000
Bridge Rehabilitation - Kalang Bridge	\$687,000			\$687,000
QLD Border to Grafton Level Crossings	\$266,000			\$266,000
Grafton to Kempsey Level Crossings	\$685,000			\$685,000
Kempsey to Craven Level Crossings	\$428,000			\$428,000
Craven to Maitland Level Crossings	\$428,000	\$31,000		\$459,000
Bridge Rehabilitation - Repton Bridge	\$414,000			\$414,000
Crossing Loop Upgrades - Wallarobba	\$537,000			\$537,000
Crossing Loop Upgrades - Stroud Road	\$535,000			\$535,000
Crossing Loop Upgrades - Bulliac	\$535,000			\$535,000
Crossing Loop Upgrades - Telegraph Point	\$535,000			\$535,000
Crossing Loop Upgrades - Nambucca Heads	\$535,000			\$535,000
Crossing Loop Upgrades - Boambee Beach	\$533,000			\$533,000
Crossing Loop Upgrades - Lawrence Road	\$536,000			\$536,000
Crossing Loop Upgrades - Kyogle	\$301,000			\$301,000
Crossing Loop Upgrades - Eungai	\$536,000			\$536,000
Concrete re-sleepering	\$60,195,000			\$60,195,000
Crossing Loop Extensions	\$62,829,000	\$8,145,000		\$70,974,000
North Coast Total	\$140,218,000	\$8,601,000		\$152,268,000



NSW Annual Condition Report (July06 to June07)

Main South	2007/08	2008/09	Beyond 2009	Total Forecast
Concrete re-sleepering	\$89,972,000	\$68,336,000		\$158,308,000
Murrumbidgee River Bridge Wagga	\$46,000			\$46,000
Re-railing	\$2,970,000			\$2,970,000
Passing Lanes - Harden to Wallendbeen	\$249,000			\$249,000
Removal of Speed Restrictions	\$2,893,000			\$2,893,000
Reposition speed boards	\$1,027,000	\$562,000		\$1,589,000
Gauge Clearance Improvements	\$182,000			\$182,000
Gerogery – Table Top	\$12,315,000			\$12,315,000
Henty - Culcairn	\$12,100,000			\$12,100,000
The Rock – Yerong Creek	\$9,018,000			\$9,018,000
Wagga – Uranquinty	\$7,806,000			\$7,806,000
Harefield – Bowen	\$11,395,000	\$1,364,000		\$12,759,000
Main South Refurbishment	\$959,000			\$959,000
Maintenance Crossovers	\$461,000	\$1,404,000		\$1,865,000
Weld Straightening	\$2,394,000	\$1,697,000		\$4,091,000
Main South Total	\$153,787,000	\$71,999,000		\$227,150,000
тсс	2007/08	2008/09	Beyond 2009	Total Forecast
TCC – North	\$4,931,000			\$4,931,000
TCC - South	\$14,907,000			\$14,907,000
TCC Total	\$19,838,000			\$19,838,000
TOTAL	\$384,986,000	\$161,913,000	\$71,256,000	\$618,155,000



5. Addendum – Revised TQI Calculation Proposal

(a) Introduction

ARTC has reviewed the Track Quality Index (TQI) calculation across its network and proposes to introduce a consistent approach to how it is calculated. The new approach differs slightly to the way it is defined in the lease Schedule 7, clause 4. The following changes are proposed to the calculation of Top and Twist readings only:

Parameter	Current Method of Measurement	Proposed Method of Measurement		
Top Up and Down readings	Vertical alignment of the down rail expressed as a versine measured at 1.8m along a 10m chord	20m Inertial Top – average of Left and Right rail standard deviation		
Twist readings	The difference in super-elevation between locations that are 2.7m apart	The difference in super- elevation between locations that are 2.0m apart		

Benefits associated with the change in TQI calculation include the following:

- Improved exchange of information and communication between ARTC staff in different states or regions due to consistent reporting and terminology (break down state based approach).
- Reduction in training time for AK Car and performance monitoring staff due to consistent approach and reporting methods.
- Reduces the number of reports and systems needing support on the AK Car.
- Facilitates the comparison of track in different states or regions, with the potential to improve understanding of factors influencing track geometry.
- Removal of cross level from the TQI calculation in SA / WA / Vic removes an artificial increase of the TQI figures due to curves and curve transitions.
- Reduces the potential for error when making changes to AK car reports etc at state boundaries.



(b) Risk

The change in TQI calculation method will not result in any change to ARTC's risk profile and is not considered to be of sufficient magnitude to warrant a formal risk assessment.

(c) Detail of Proposal

Twist

It is proposed to align the way TQI is reported across the network by replacing the Twist over 2.7m with Twist over 2m in NSW. Historically the short twist parameters have been different in SA/Vic and NSW due to the fact that both had different measuring vehicles with different sampling rates ie 0.9m in NSW (RVX4) and 0.5m for SA/Vic (EM80 and now AK Car). It is proposed to move to the Twist over 2m for the entire ARTC network for the following reasons:

- This is a similar distance to typical axle spacing on a bogie for most of the freight wagons on the ARTC network.
- The new NCoP Track Geometry standard uses the Twist over 2m parameter.
- This is consistent with the 0.5m sample rate used by the AK car and does not require calculation of an interpolated value.

Top

The AK Car reports different parameters for Top in SA/Vic and NSW. Since the introduction of the AK Car, SA and Victoria have adopted the inertial 20m top parameter reported directly by the car however NSW have used the emulated chord based parameter (1.8/10m chord top) to approximate top measurements recorded by the RVX4 pre AK Car. Use of an inertial measuring system to calculate and emulate a chord based top parameter does not fully utilise the measuring capability of the car. Reviews of the inertial top data have revealed that the raw inertial data from the AK Car shows a very close comparison with track faults and measurements taken in the field. For this reason it is proposed to replace the emulated chord based NSW top parameter and adopt the 20m inertial top parameter. This would also align results with the top parameter proposed in the NCoP Track Geometry standard.

(d) Effect of Proposed Changes on KPI Targets

The proposed changes to Top and Twist parameters used in the TQI Calculation, results in a small increase in Top results, with a similar small decrease in Twist results. The effect is demonstrated in the following table, together with the proposed changes to the lease KPI Targets (Annual and Five Year Limits) based on use of the new calculation method TQI.

NSW Annual Condition Report (July06 to June07)

Proposed Geometry KPI Targets

South

Region	Measure	Current Lease Annual Limit	Current Lease 5 Year Limit	Current Method 06/07 Result	Proposed Method 06/07 Result	Variation between Current & Proposed	Proposed Lease Annual Limit	Proposed Lease 5 Year Limit
South	Тор	8.55	7.37	6.72	8.79	2.07	10.62	9.44
	Twist	7.84	7.45	7.35	6.20	-1.15	6.69	6.30
	Line	10.20	8.91	8.33	9.05		10.20	8.91
	Gauge	6.48	5.94	5.89	5.90		6.48	5.94

North Coast

Region	Measure	Current Lease Annual Limit	Current Lease 5 Year Limit	Current Method 06/07 Result	Proposed Method 06/07 Result	Variation between Current & Proposed	Proposed Lease Annual Limit	Proposed Lease 5 Year Limit
North	Тор	7.04	5.92	5.02	7.09	2.07	9.11	7.99
	Twist	7.54	6.89	6.02	5.03	-0.99	6.55	5.90
	Line	13.52	11.92	11.11	11.61		13.52	11.92
	Gauge	6.89	6.64	6.47	6.47		6.89	6.64

West

Region	Measure	Current Lease Annual Limit	Current Lease 5 Year Limit	Current Method 06/07 Result	Proposed Method 06/07 Result	Variation between Current & Proposed	Proposed Lease Annual Limit	Proposed Lease 5 Year Limit
West	Тор	9.10	8.45	8.27	10.34	2.07	11.17	10.52
	Twist	8.15	8.00	7.48	6.22	-1.26	6.89	6.74
	Line	8.31	6.45	6.49	7.01		8.31	6.45
	Gauge	5.83	4.66	4.63	4.57		5.83	4.66

Inland Route

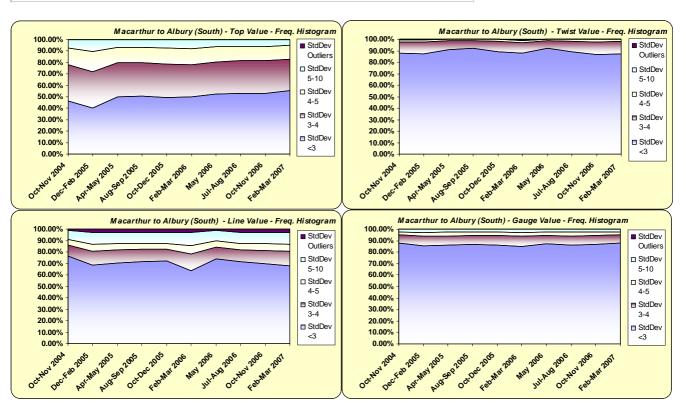
Region	Measure	Current Lease Annual Limit	Current Lease 5 Year Limit	Current Method 06/07 Result	Proposed Method 06/07 Result	Variation between Current & Proposed	Proposed Lease Annual Limit	Proposed Lease 5 Year Limit
Inland	Тор	9.98	8.57	8.44	10.92	2.48	12.46	11.30
	Twist	9.30	8.91	8.69	7.45	-1.24	8.06	7.75
	Line	10.79	8.32	8.88	8.88		10.79	9.22
	Gauge	6.46	5.85	5.99	5.99		6.46	5.84

Effects on Trending Graphs

These trending graphs consist of all geometry readings taken for a KPI region up to 30 June 2007, calculated using the revised parameters for Top and Twist. There is no discernable change in the trending graphs as a result of the proposed change.

South (July 2006 to June 2007)

South (May 06)	StdDev <3	StdDev 3-4	StdDev 4-5	StdDev 5-10	StdDev Outliers
Тор	55.48%	27.72%	11.69%	5.10%	0.00%
Twist	87.42%	10.95%	1.47%	0.17%	0.00%
Versine	67.72%	13.07%	5.92%	10.31%	2.98%
Gauge	88.10%	6.90%	2.76%	2.20%	0.04%

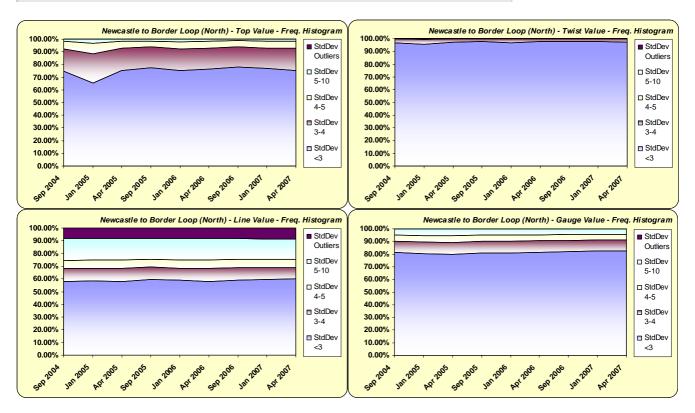




NSW Annual Condition Report (July06 to June07)

North Coast (July 2006 to June 2007)

North Coast (Apr 06)	StdDev <3	StdDev 3-4	StdDev 4-5	StdDev 5-10	StdDev Outliers
Тор	75.47%	17.28%	5.39%	1.86%	0.00%
Twist	97.18%	2.59%	0.22%	0.01%	0.00%
Versine	60.03%	8.86%	6.55%	16.04%	8.52%
Gauge	82.76%	8.70%	4.38%	4.14%	0.03%

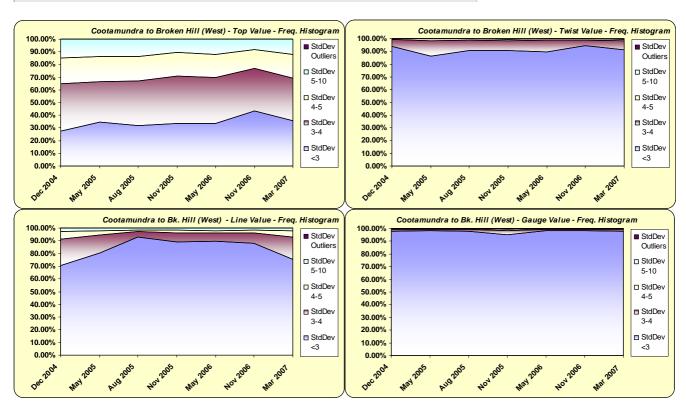




NSW Annual Condition Report (July06 to June07)

West (July 2006 to June 2007)

West (May 06)	StdDev <3	StdDev 3-4	StdDev 4-5	StdDev 5-10	StdDev Outliers
Тор	35.61%	33.72%	18.49%	12.12%	0.06%
Twist	91.06%	7.41%	1.25%	0.27%	0.00%
Versine	75.56%	17.61%	4.59%	2.12%	0.13%
Gauge	98.03%	1.43%	0.38%	0.15%	0.01%





NSW Annual Condition Report (July06 to June07)

Inland Route (July 2006 to June 2007)

Inland (June 2006)	StdDev <3	StdDev 3-4	StdDev 4-5	StdDev 5-10	StdDev Outliers
Тор	31.51%	34.76%	20.84%	12.86%	0.04%
Twist	74.64%	21.58%	3.05%	0.73%	0.00%
Versine	64.70%	17.75%	8.10%	7.97%	1.48%
Gauge	90.60%	6.66%	1.55%	0.97%	0.22%

