



TEMPLATE EXPLANATION

These templates form part of the information requirements of the AER as part of its annual compliance review against the service standards in Murraylink's revenue cap decision.

Yellow worksheets (**'Inputs- Performance' and 'Inputs- Exclusions'**) are for inputs, including performance and exclusion information. Murraylink only needs to enter data on these sheets.

Purple worksheets **'S1' to 'S3'** are the s-factors results based on the performance inputs from 'Inputs - Performance' sheet.

Blue worksheet **'Revenue Calculation'** quantifies the appropriate revenue to be applied to the s-factor results adjusted for CPI.

Red worksheet **'Outcomes'** shows the total performance, s-factor and financial incentive results based on the TNSP's performance in 'Inputs-Performance' and 'Revenue Calculation.'

Orange worksheet **'Exclusion Definitions'** are the defined exclusions for Murraylink which should form the basis of exclusion requests under 'Inputs-Exclusions.'

MURRAYLINK - SERVICE STANDARDS PERFORMANCE 2006

PERFORMANCE MEASURE	S	2006 Performance (Without exclusions)	2006 Performance (With exclusions)
Planned circuit energy availability	S1	98.494280%	99.106730%
Peak forced outage availability	S2	99.472904%	99.762903%
Off- peak forced outage availability	S3	99.847468%	99.905704%

Date prepared:	27 January 2007
Revision date:	27 January 2007

NOTES:

Performance should be based on 2006 calendar year data.

Pink cells- Input performance without exclusions from performance data

Orange cells- Input performance with exclusions from performance data

Green cell (C13) input date that template data was entered. Enter date of any revisions from original version (C14).

MURRAYLINK - Proposed exclusions

CIRCUIT AVAILABILITY MEASURES	Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Circuit affected	Reactive plant or transformer	Quantitative impact	Reasons for exclusion request	Further references
Name of any circuit availability measures applying to Murraylink	Name of the event	A brief outline of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted.	A brief description of the cause of the event	Start date and time of event		End date and time of event		Name of circuit affected	Name of any reactive plant or transformer affected	Number of hours, mins etc interrupted	Reason for excluding this event. Should include a reference to the defined exclusions (see Exclusion definition tab). Eg. Exclusion 1.3 Third party event	A TNSP may provide further details of an exclusion event. TNSP to provide reference.
S1 Planned circuit energy availability		Murraylink Red Cliffs: SP AusNet required Murraylink Red Cliffs circuit breaker WT.Q1 open for work on the connection assets at Red Cliffs Terminal Station. Powercore were also doing work at Red Cliffs Terminal Station and had isolated the backup 22kV supply to Murraylink but had not notified us that this was the case. Murraylink blacked out for 14 hours. Murraylink UPS batteries ran flat.		1/05/06	07:06:00	2/05/06	00:53:00	Murraylink		17:47:00	Exclusion 1.2 Third Party Event	
		Murraylink Red Cliffs: SP AusNet required Murraylink Red Cliffs circuit breaker WT.Q1 open to close circuit breaker at Red Cliffs Terminal Station. SP AusNet circuit breaker faulty and Murraylink return to service was delayed until investigations were complete.		2/05/06	18:39:00	2/05/06	20:13:00	Murraylink		01:34:00	Exclusion 1.2 Third Party Event	
		Murraylink Red Cliffs: SP AusNet requested outage for system security.		22/06/06	08:25:00	22/06/06	17:29:00	Murraylink		09:04:00	Exclusion 1.2 Third Party Event	
		Murraylink Red Cliffs: SP AusNet opened both Murraylink bus tie circuit breakers at Red Cliffs Terminal Station.		28/06/06	07:05:00	28/06/06	19:10:00	Murraylink		12:05:00	Exclusion 1.2 Third Party Event	
		Murraylink Red Cliffs: SP AusNet opened both Murraylink bus tie circuit breakers at Red Cliffs Terminal Station.		10/08/06	06:14:00	10/08/06	18:16:00	Murraylink		12:02:00	Exclusion 1.2 Third Party Event	
		Murraylink Red Cliffs: SP AusNet required Murraylink circuit breaker open to reclose No.1 Bus circuit breaker at Red Cliffs Terminal Station		13/09/06	12:00:00	13/09/06	12:20:00	Murraylink		00:20:00	Exclusion 1.2 Third Party Event	
		Murraylink Red Cliffs: SP AusNet required Murraylink Red Cliffs circuit breaker WT.Q1 open to close circuit breaker at Red Cliffs Terminal Station.		6/11/06	08:45:00	6/11/06	08:48:00	Murraylink		00:03:00	Exclusion 1.2 Third Party Event	
		Murraylink Red Cliffs: SP AusNet required Murraylink Red Cliffs circuit breaker WT.Q1 open to close circuit breaker at Red Cliffs Terminal Station.		19/11/06	17:08:00	19/11/06	17:09:00	Murraylink		00:01:00	Exclusion 1.2 Third Party Event	
		Murraylink Red Cliffs: SP AusNet required Murraylink circuit breaker open to reclose Bus circuit breaker at Red Cliffs Terminal Station.		20/12/06	17:13:00	20/12/06	17:15:00	Murraylink		00:02:00	Exclusion 1.2 Third Party Event	
		Murraylink Red Cliffs: SP-Ausnet required Murraylink circuit breaker open to reclose No.2 Bus circuit breaker at RCTS. No.2 bus recalled for system security - bushfires in Vic.		8/12/06	19:58:00	8/12/06	20:02:00	Murraylink		00:04:00	Exclusion 1.2 Third Party Event	

S2	Peak forced outage availability	Murraylink Berri: Runback caused by circuit breaker opening at Monash	19/01/06	07:35:00	19/01/06	08:02:00	Murraylink	00:27:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: Runback caused by NSW network	20/01/06	18:15:00	20/01/06	18:38:00	Murraylink	00:23:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: Trip due to fire system operation. Heavy smoke caused by bush fires.	23/01/06	03:26:00	23/01/06	19:32:00	Murraylink	12:32:00	Exclusion 1.3 Force Majeure
		Murraylink Red Cliffs: Runback scheme operation	3/02/06	11:14:00	3/02/06	11:17:00	Murraylink	00:03:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: Runback scheme operation	16/02/06	14:45:00	16/02/06	14:48:00	Murraylink	00:03:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: Runback scheme operation	18/02/06	07:22:00	18/02/06	08:22:00	Murraylink	01:00:00	Exclusion 1.2 Third Party Event
		Murraylink Berri: Runback caused by Monash substation bus zone trip.	23/02/06	15:03:00	23/02/06	15:07:00	Murraylink	00:04:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: Runback scheme operation	26/02/06	16:31:00	26/02/06	16:41:00	Murraylink	00:10:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: Runback by Victorian Fast Runback	19/03/06	14:34:00	19/03/06	14:58:00	Murraylink	00:24:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: Runback by NSW Ruback scheme. Scheme disabled but power failure in RCTS shut down the backup trip panel triggering the runback.	24/03/06	07:30:00	24/03/06	08:33:00	Murraylink	01:03:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: Runback by Victorian Fast Runback. SP-Ausnet operator claimed they could not reset the runback. A check of the Murraylink control system revealed that all was ok. SP-Ausnet then reset the runback.	25/03/06	07:06:00	25/03/06	09:11:00	Murraylink	02:05:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: Runback by Victorian Fast Runback. Trip on Kerang Line.	10/04/06	16:04:00	10/04/06	16:19:00	Murraylink	00:15:00	Exclusion 1.2 Third Party Event
		Murraylink Berri: Runback caused by trip at Monash substation.	7/05/06	07:02:00	7/05/06	07:27:00	Murraylink	00:25:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: SP AusNet work on the Victorian Fast Runback caused a runback at 16:11:00. The runback was not reset by SP-Ausnet and Murraylink was able to follow dispatch because power flow was SA to Vic. At 17:40:00 power flow changed to Vic to SA and Murraylink was not following dispatch until SP-Ausnet reset the runback at 22:52:00.	21/07/06	19:40:00	21/07/06	22:52:00	Murraylink	02:20:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: Runback by Victorian Fast Runback	2/08/06	10:50:00	2/08/06	10:52:00	Murraylink	00:02:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: Runback by Vic Slow Runback	16/08/06	14:24:00	16/08/06	15:00:00	Murraylink	00:36:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: Runback by Vic Fast Runback. SP Ausnet working on comms at RCTS	6/09/06	14:57:00	6/09/06	14:58:00	Murraylink	00:01:00	Exclusion 1.2 Third Party Event
		Murraylink Berri: Runback caused by trip at Monash substation breaker failure protection trip.	7/10/06	13:28:00	7/10/06	13:37:00	Murraylink	00:09:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: Runback caused by failure of battery charger at RCTS.	10/10/06	16:20:00	10/10/06	16:45:00	Murraylink	00:25:00	Exclusion 1.2 Third Party Event
		Murraylink Red Cliffs: Runback by Victorian Fast Runback. Contractor disturbed connections in control box at RCTS	1/11/06	07:52:00	1/11/06	08:44:00	Murraylink	00:52:00	Exclusion 1.2 Third Party Event
Murraylink Berri: Runback by SA runback scheme from 145MW to 117 MW	28/11/06	14:27:00	28/11/06	14:33:00	Murraylink	00:06:00	Exclusion 1.2 Third Party Event		
Murraylink Berri: Runback by SA runback scheme from -114MW to 0MW	30/11/06	15:35:00	30/11/06	15:44:00	Murraylink	00:09:00	Exclusion 1.2 Third Party Event		

			Murraylink Berri: tripped due to under frequency. Circuit breakers opening at Monash substation due to triggered by lightning.		1/12/06	17:50:00	1/12/06	19:15:00	Murraylink		01:25:00	Exclusion 1.2 Third Party Event	
			Murraylink Red Cliffs: Runback from Victorian fast Runback. SP-Ausnet Contractor caused the operation of the runback scheme.		4/12/06	10:18:00	4/12/06	10:21:00	Murraylink		00:03:00	Exclusion 1.2 Third Party Event	
S3	Off-peak forced outage availability		Murraylink Red Cliffs: Trip due to fire system operation. Heavy smoke caused by bush fires.		23/01/06	03:26:00	23/01/06	19:32:00	Murraylink		03:34:00	Exclusion 1.3 Force Majeure	
			Murraylink Berri: Runback caused by Monash substation bus zone trip.		29/01/06	01:26:00	29/01/06	01:46:00	Murraylink		00:20:00	Exclusion 1.2 Third Party Event	
			Murraylink Red Cliffs: SP AusNet work on the Victorian Fast Runback caused a runback at 16:11:00. The runback was not reset by SP-Ausnet and Murraylink was able to follow dispatch because power flow was SA to Vic. At 17:40:00 power flow changed to Vic to SA and Murraylink was not following dispatch until SP-Ausnet reset the runback at 22:52:00.		21/07/06	19:40:00	21/07/06	22:52:00	Murraylink		00:52:00	Exclusion 1.2 Third Party Event	
			Murraylink Red Cliffs: Runback by Victorian Fast Runback		2/08/06	04:30:00	2/08/06	04:46:00	Murraylink		00:16:00	Exclusion 1.2 Third Party Event	

NOTES:

This spreadsheet should include a list all events that are proposed for exclusion. This is consistent with the reporting information requirements contained in section 4.2 of the AER's Service Standards Guidelines.

Each proposed exclusion event should include a description of the event, a description of the impact and quantification of the impact on the network and performance. The descriptive elements should also include reasons for the exclusion request making reference to the "Exclusion Definitions" tab.

Each exclusion should be entered onto one row for each measure. Where one exclusion event applies to more than one measure, the relevant details of the event should be entered under each of the measure headings.

The TNSP must provide details for all events requested for exclusion in this template. In the event that the TNSP wishes to provide further details of an exclusion, this should be provided with the TNSP's performance report. The source of information should be referenced in this template.

Green cells - input description impact

Orange cells - input reasons for the exclusion request

MURRAYLINK- S1 - Planned circuit energy availability

Performance Target	Graph start	Collar	Target	Cap	Graph end
Planned circuit energy availability	99.00%	99.04%	99.17%	99.38%	99.50%
Measure Weighting	-0.40%	-0.40%	0.00%	0.40%	0.40%

Performance Formulae	Formulae					Conditions	S- Calc 1	S- Calc 2
Performance	=	-0.004000				When: Availability < 99.04%	-0.004000	-0.004000
	=	3.076923	x	Availability	+	-3.051385 99.04% ≤ Availability ≤ 99.17%	-0.020791	-0.001947
	=	1.904762	x	Availability	+	-1.888952 99.17% ≤ Availability ≤ 99.38%	-0.012871	-0.001205
	=	0.004000				99.38% < Availability	0.004000	0.004000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Planned circuit energy availability	=	98.494280%	99.106730%
S-Factor	=	-0.400000%	-0.194676%

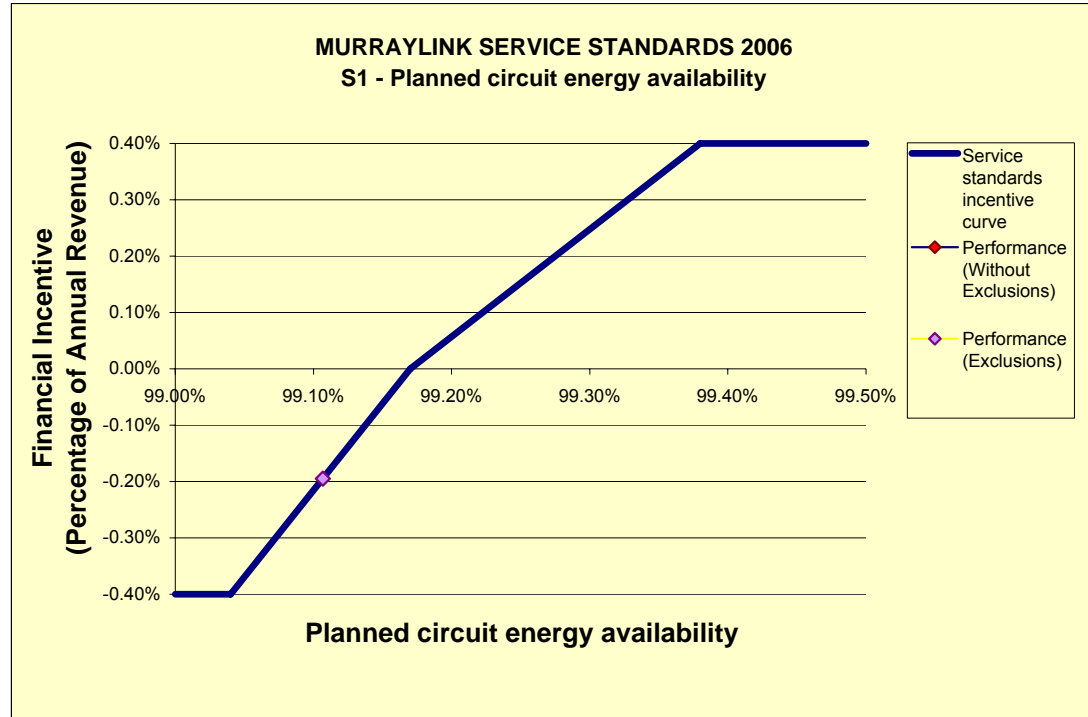
NOTES:

Blue cells show Murraylink's performance targets (C4:E4) and measure weightings (C5:E5) [See Table 9.4 of revenue cap]

Yellow/Green cells (Rows 8:11) show Murraylink's performance formulae and related formula conditions based on performance targets and measure weightings

Pink cells (C14, C15) show Murraylink's performance outcomes without any events excluded from performance data

Orange cells (D14, D15) show Murraylink's performance outcomes with events excluded from performance data



MURRAYLINK- S2 - Peak forced outage availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Peak forced outage availability	98.50%	98.90%	99.48%	100.00%	100.00%
Measure Weighting	-0.40%	-0.40%	0.00%	0.40%	0.40%

Performance Formulae	Formulae				Conditions	S- Calc 1	S- Calc 2
Performance	=	-0.004000			Availability < 98.90%	-0.004000	-0.004000
	=	0.689655	x	Availability	+ 98.90% ≤ Availability ≤ 99.48%	-0.000049	0.001951
	=	0.769231	x	Availability	+ 99.48% ≤ Availability ≤ 100.00%	-0.000055	0.002176
	=	0.004000			100.00% < Availability	0.004000	0.004000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Peak forced outage availability	=	99.472904%	99.762903%
S-Factor Result	=	-0.004894%	0.217618%

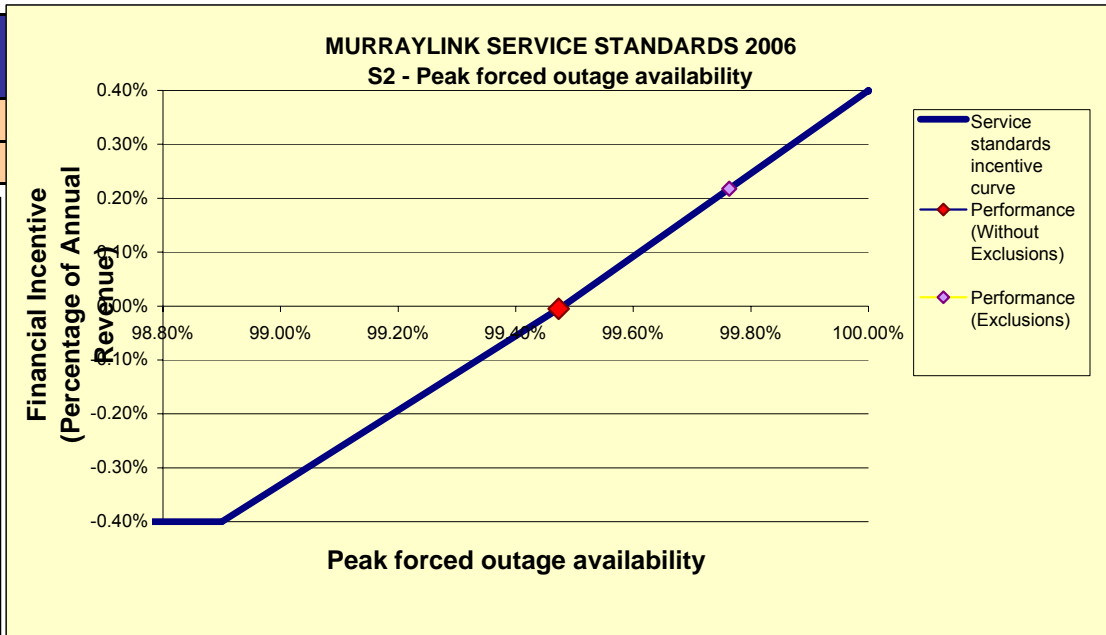
NOTES:

Blue cells show Murraylink's performance targets (C4:E4) and measure weightings (C5:E5) [See Table 9.5 of revenue cap]

Yellow/Green cells (Rows 8:11) show Murraylink's performance formulae and related formula conditions based on performance targets and measure weightings

Pink cells (C14, C15) show Murraylink's performance outcomes without any events excluded from performance data

Orange cells (D14, D15) show Murraylink's performance outcomes with events excluded from performance data



MURRAYLINK- S3 - Off-peak forced outage availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Off-peak forced outage availability	98.50%	98.84%	99.34%	99.94%	100.00%
Measure Weighting	-0.20%	-0.20%	0.00%	0.20%	0.20%

Performance Formulae	Formulae				Conditions	S- Calc 1	S- Calc 2
Performance	=	-0.002000			When: Availability < 98.84%	-0.002000	-0.002000
	=	0.400000	x	Availability	+ 98.84% ≤ Availability ≤ 99.34%	0.002030	0.002263
	=	0.333333	x	Availability	+ 99.34% ≤ Availability ≤ 99.94%	0.001692	0.001886
	=	0.002000			99.94% < Availability	0.002000	0.002000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Off-peak forced outage availability	=	99.847468%	99.905704%
S-Factor Result	=	0.169156%	0.188568%

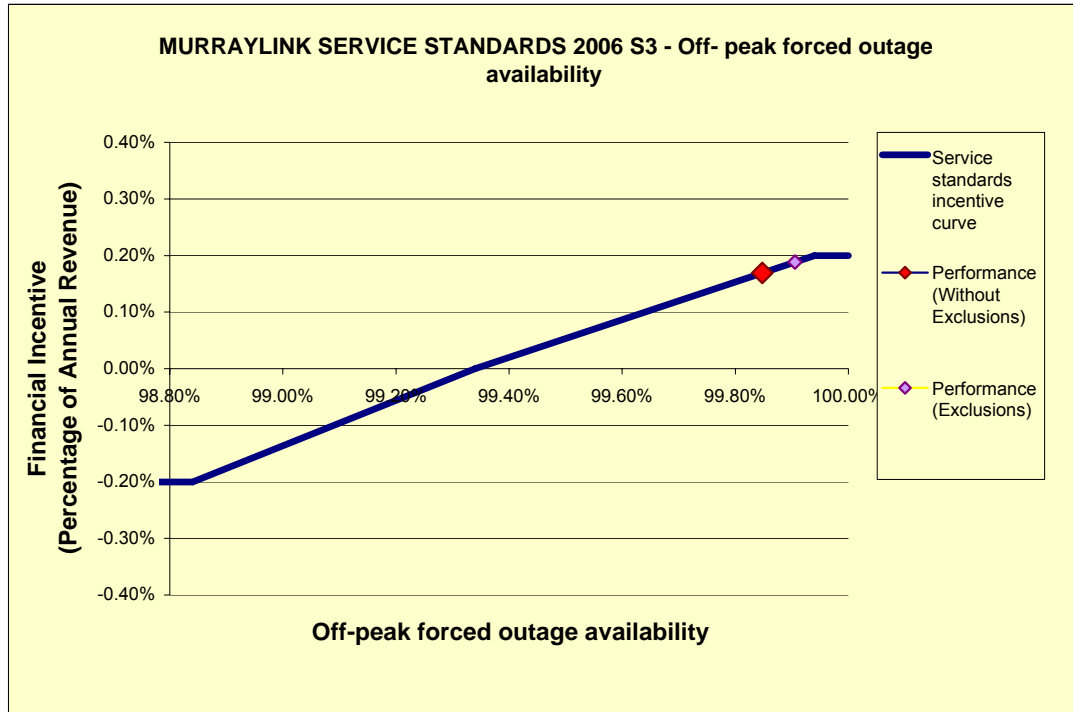
NOTES:

Blue cells show Murraylink's performance targets (C4:E4) and measure weightings (C5:E5) [See Table 9.6 of revenue cap]

Yellow/Green cells (Rows 8:11) show Murraylink's performance formulae and related formula conditions based on performance targets and measure weightings

Pink cells (C14, C15) show Murraylink's performance outcomes without any events excluded from performance data

Orange cells (D14, D15) show Murraylink's performance outcomes with events excluded from performance data



Murraylink - Revenue Calculation

Revenue cap information					
Base revenue (AR) - (1 Oct 2003-30 June 2004)	\$8,900,000				
Base year	2003-04				
Commencement of regulatory period	1-Oct-03				
Commencement of 2004 calendar year	1-Jan-04	Dec-03	Dec-04	Dec-05	Dec-06
Commencement of 2004-05 financial year	1-Jul-04	142.8	146.5	150.6	155.5
Revenue cap revocation: 2004-05 Revenue (with 03-04 correction)	\$12,803,000	2003-04	2004-05*	2005-06	2006-07
Revenue cap revocation: 2004-05 Revenue (without 03-04 correction)	\$12,403,000	\$8,900,000	\$12,403,000	\$12,571,674	\$12,768,427
X-factor	1.20%				
		2007-08			
				\$13,025,661	

Annual revenue adjusted for CPI	Mar-03	Mar-04	Mar-05	Mar-06	Mar-07
CPI	141.3	144.1	147.5	151.9	
	2003-04	2004-05*	2005-06	2006-07	2007-08
Annual Revenue	\$8,900,000	\$12,403,000	\$12,543,298	\$12,762,461	\$0

Calendar year revenue	2003	2004*	2005	2006
Revenue	\$2,243,288	\$10,639,308	\$12,473,149	\$12,652,879

NOTES:

Murraylink's revenue cap commenced 1 October 2003. Based on a further application by MTC on 2 February 2004, the Australian Competition and Consumer Commission revoked and substituted Murraylink's revenue cap decision on 31 March 2004. This resulted in a revised revenue path from 2004-05 for the remainder of the regulatory period. Revenue calculations for 2004-05 included a one-off correction for the 2003-04 period.

* The annual revenue for the 2004-05 year does not include the one-off correction for the 2003-04 period. This to enable a simple escalation of annual revenues from 2004-05 onwards. The 2004 calendar year revenue is indicative only.

Grey cells show calendar year revenue

Green cells are for formula

Blue cells are a drop down menu

MURRAYLINK- Performance outcomes 2006

Revenue calendar year 2006 (\$) **\$12,652,879**

Performance measure	S	Target	Performance without exclusions			Performance with exclusions			Impact of exclusions
			Performance	S-Factor	Final Incentive	Performance	S-Factor	Final Incentive	
Planned circuit energy availability	S1	99.17%	98.494280%	-0.400000%	-\$50,612	99.11%	-0.194676%	-\$24,632	0.205324%
Peak forced outage availability	S2	99.48%	99.472904%	-0.004894%	-\$619	99.76%	0.217618%	\$27,535	0.222512%
Off- peak forced outage availability	S3	99.34%	99.847468%	0.169156%	\$21,403	99.91%	0.188568%	\$23,859	0.019412%
TOTALS				-0.235738%	-\$29,828		0.211510%	\$26,762	0.447248%

NOTE:

THIS PAGE WILL AUTOMATICALLY UPDATE BASED ON DATA IN INPUT WORKSHEETS

Grey cell (C3) show relevant calendar year revenue

Green cells (C7:C12) show performance measure targets

Pink cells (Rows D:F) show performance, s-factor results and financial incentive without exclusions

Orange cells (Rows G:I) show performance, s-factor results and financial incentive with exclusions

Blue cells show the impact of exclusions on revenue

Performance outcome for 2006 calendar year	
S-factor	0.211510%
Bonus (penalty)	\$26,762
Financial year to affect revenue	2007-08

MURRAYLINK - Defined exclusions

Measure 1- Planned circuit energy availability			
No.	Defined exclusions	Further description of exclusion	Reference
1.1	Unregulated transmission assets		Schedule 1 AER Service Standards Guidelines
1.2	Third party outage	Any outages caused by a 3rd party such as intertrip signals, generator outage, customer installation, customer request or NEMMCO direction.	Schedule 1 AER Service Standards Guidelines Appendix H of the <i>MTC Application for Conversion and MAR: Decision</i>
1.3	Force majeure		
Measure 2- Peak forced outage availability			
No.	Defined exclusions	Further description of exclusion	Reference
1.1	Unregulated transmission assets		Schedule 1 AER Service Standards Guidelines
1.2	Third party outage	Any outages caused by a 3rd party such as intertrip signals, generator outage, customer installation, customer request or NEMMCO direction.	Schedule 1 AER Service Standards Guidelines Appendix H of the <i>MTC Application for Conversion and MAR: Decision</i>
1.3	Force majeure		
Measure 3- Off- peak forced outage availability			
No.	Defined exclusions	Further description of exclusion	Reference
1.1	Unregulated transmission assets		Schedule 1 AER Service Standards Guidelines
1.2	Third party outage	Any outages caused by a 3rd party such as intertrip signals, generator outage, customer installation, customer request or NEMMCO direction.	Schedule 1 AER Service Standards Guidelines Appendix H of the <i>MTC Application for Conversion and MAR: Decision</i>
1.3	Force majeure		