

TEMPLATE EXPLANATION



This template must be used by TransGrid to report service performance information for the 2007 calendar year.

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

Purple worksheets **'S1' to 'S6'** are the s-factors results based on the performance inputs from the 'Inputs - Performance' worksheet.

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 TransGrid's performance in 'Inputs-Performance' and 'Revenue Calculation' worksheets.

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

TRANSGRID - SERVICE STANDARDS PERFORMANCE

PERFORMANCE PARAMETERS	S	<i>Performance (Without exclusions)</i>	<i>Performance (With exclusions)</i>
Transmission line availability	S1	99.15%	99.38%
Transformer availability	S2	97.44%	97.46%
Reactive plant availability	S3	99.23%	99.23%
Reliability (Events > 0.05 and <=0.4 system minutes)	S4	4	4
Reliability (Events > 0.4 system minutes)	S5	1	1
Average outage restoration time	S6	832	788

Date prepared:	29th January, 2008
Revision date:	

NOTES:

Pink cells- Input performance without exclusions from performance data

Orange cells- Input performance with exclusions from performance data

Green cells- Input date that template data was entered and date of any revisions from original version.

Performance should be measured on a calendar year basis

TRANSGRID - Proposed exclusions

CIRCUIT AVAILABILITY	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	Circuits affected	Reactive plant or transformer	Quantitative impact (hours)	Reasons for exclusion request	Further references
Name of any circuit availability parameters applying to TransGrid	Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP assets damaged or interrupted.	A description of the cause of the event	Start date and time of event		End date and time of event		Name of circuits affected	Name of any reactive plant or transformer affected	Number of hours, mins etc interrupted	Full details of the reasons for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see Exclusion definition tab). Eg. Exclusion 1.2 Third party event	A TNSP may provide further details of an exclusion event. TNSP to provide reference.
S1 Transmission line availability	3-2007-F0038	Trip of line during bushfires in Victoria.	Bushfires in Victoria and cascade effects on transmission networks.	16/01/07	16:03	16/01/07	18:58	X5		2.92	Exclusion 1.2 - 3rd Party Outage due to bushfires in Victoria and cascade effects on transmission networks.	AER Decision - Investigation into the events of 16 January 2007
	3-2007-F0040	Line tripped due to a fault on busbar at Snowy Hydro's M2 Power Station.	Intertrip received from power station.	2/02/07	23:50	3/02/07	17:11	M11		17.35	Exclusion 1.2 - 3rd Party Outage Intertrip received from Snowy Hydro's M2 Power Station.	TransGrid Forced and Emergency Outage Report
	3-2007-P0071	Line isolated and earthed for work at M2 power station as requested by Snowy Hydro.	Request from Snowy Hydro.	4/02/07	8:11	4/02/07	11:25	M11		3.23	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0099	Line isolated for work at M1 Power Station as requested by Snowy Hydro.	Request from Snowy Hydro.	16/02/07	7:18	16/02/07	14:36	M7		7.3	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0143	Line de-energised for work at Jindabyne Pumping station as requested by Snowy Hydro.	Request from Snowy Hydro.	5/03/07	9:59	5/03/07	21:56	97L		11.95	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	1-2007-P0150	Line isolated for One Steel. The line is directly connected to OneSteel's transformer at the customer end.	Request from customer.	8/03/07	7:39	8/03/07	14:28	96X		6.82	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0185	Line outage due to Guthega 132kV No.3 Section Bus outage, which was requested by Snowy Hydro for crane access during their work.	Request from Snowy Hydro.	15/03/07	9:30	15/03/07	13:17	97L		3.78	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0189	Line opened at Red Cliffs for VNSC work.	Request from customer.	16/03/07	6:31	16/03/07	13:32	OX1		7.02	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	2-2007-P0193	Line isolated and earthed for work on the line as requested by EnergyAustralia.	Request from EnergyAustralia.	21/03/07	19:45	22/03/07	17:34	250		21.82	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0215	Line isolated for work at M1 Power Station as requested by Snowy Hydro.	Request from Snowy Hydro.	23/03/07	6:03	23/03/07	11:47	M3		5.73	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0222	Line de-energised for protection work as requested by Snowy Hydro.	Request from Snowy Hydro.	27/03/07	8:17	27/03/07	2:09	U5		0.87	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0223	Line de-energised for protection work as requested by Snowy Hydro.	Request from Snowy Hydro.	27/03/07	9:19	27/03/07	9:56	U7		0.62	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0253	Line isolated for work by Snowy Hydro.	Request from Snowy Hydro.	4/04/07	6:06	4/04/07	17:14	M3		11.13	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0283	Line de-energised for work at Jindabyne Pumping Station as requested by Snowy Hydro.	Request from Snowy Hydro.	10/04/07	7:19	13/04/07	18:55	97L		83.6	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0262	Line isolated for work at M1 Power Station as requested by Snowy Hydro.	Request from Snowy Hydro.	10/04/07	8:20	10/04/07	16:37	M3		8.28	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0278	Line isolated for work at M1 Power Station as requested by Snowy Hydro.	Request from Snowy Hydro.	12/04/07	6:54	12/04/07	18:10	M3		11.27	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0284	Outage due to Guthega 132kV Bus outage for Snowy Hydro.	Request from Snowy Hydro.	12/04/07	9:50	12/04/07	17:08	97L		7.3	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0282	Outage due to Guthega 132kV Bus outage for Snowy Hydro.	Request from Snowy Hydro.	12/04/07	9:50	12/04/07	17:08	979		7.3	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0287	Outage due to Guthega 132kV Bus outage for Snowy Hydro.	Request from Snowy Hydro.	12/04/07	9:50	12/04/07	17:08	97G		7.3	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0291	Line isolated for work at T3 Power Station as requested by Snowy Hydro.	Request from Snowy Hydro.	13/04/07	6:51	15/04/07	16:14	L1		57.38	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0299	Line de-energised for work by Snowy Hydro as requested by Snowy Hydro.	Request from Snowy Hydro.	16/04/07	9:14	8/05/07	13:06	97L		531.87	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0323	Line isolated for work at T3 Power Station as requested by Snowy Hydro.	Request from Snowy Hydro.	21/04/07	6:33	24/04/07	17:01	L1		82.47	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0330	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	23/04/07	12:54	23/04/07	17:43	M5		4.82	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
	3-2007-P0324	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	23/04/07	6:13	23/04/07	12:33	M7		6.33	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
3-2007-P0331	Line isolated and earthed as requested by Snowy Hydro. TransGrid used the same outage for circuit breaker maintenance at Murray Switching Station.	Request from Snowy Hydro.	24/04/07	6:14	24/04/07	13:13	M9		6.98	Exclusion 1.2 - 3rd Party Outage Requested by customer.		
3-2007-P0342	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	26/04/07	13:12	26/04/07	17:39	M1		4.45	Exclusion 1.2 - 3rd Party Outage Requested by customer.		
3-2007-P0334	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	26/04/07	6:16	26/04/07	12:48	M3		6.53	Exclusion 1.2 - 3rd Party Outage Requested by customer.		

S1	Transmission line availability (cont'd)	3-2007-P0335	Line isolated and earthed as requested by VNSC.	Request from VNSC.	26/04/07	7:04	27/04/07	18:57	OX1	35.88	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0341	Line isolated and earthed for work by Snowy Hydro. TransGrid also used the same outage for work on circuit breaker U12.	Snowy Hydro requirement for outage.	26/04/07	10:01	30/04/07	15:05	U1	101.07	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		1-2007-P0415	Line isolated and earthed for EnergyAustralia.	Request from EnergyAustralia.	9/05/07	6:16	9/05/07	17:15	962	10.98	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0405	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	16/05/07	8:54	16/05/07	14:11	M9	5.28	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0413	Line isolated for work at M2 Power Station as requested by Snowy Hydro.	Request from Snowy Hydro.	21/05/07	10:43	21/05/07	16:35	M13	5.87	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		1-2007-P0503	Line isolated and earthed for EnergyAustralia.	Request from EnergyAustralia.	25/05/07	6:08	25/05/07	16:59	962	10.85	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0445	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	25/05/07	14:54	27/05/07	17:43	L1	50.82	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		1-2007-P0525	Line isolated for One Steel. The line is directly connected to OneSteel's transformer at the customer end.	Request from customer.	31/05/2007	8:04	31/05/2007	14:59	96Y	6.92	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		1-2007-P0547	Line isolated and earthed for EnergyAustralia.	Request from EnergyAustralia.	6/06/2007	6:42	6/06/2007	17:20	962	10.63	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0498	Opened at Yass end only.	Part of system split required for Wodonga-Dederang line outage.	7/06/2007	6:53	7/06/2007	16:43	990	9.83	Exclusion 1.6 - The Opening of One End of a Transmission Circuit Required for operational security for line outage in Victoria.	
		3-2007-P0499	Opened at Murrumburrah end only.	Part of system split required for Wodonga-Dederang line outage.	7/06/2007	6:54	7/06/2007	16:43	991	9.82	Exclusion 1.6 - The Opening of One End of a Transmission Circuit Required for operational security for line outage in Victoria.	
		3-2007-P0500	Opened at Wagga 330 end only.	Part of system split required for Wodonga-Dederang line outage.	7/06/2007	6:56	7/06/2007	16:42	993	9.77	Exclusion 1.6 - The Opening of One End of a Transmission Circuit Required for operational security for line outage in Victoria.	
		3-2007-P0496	Opened at Wagga 330 end only.	Part of system split required for Wodonga-Dederang line outage.	7/06/2007	6:52	7/06/2007	16:44	996	9.87	Exclusion 1.6 - The Opening of One End of a Transmission Circuit Required for operational security for line outage in Victoria.	
		3-2007-P0497	Opened at Buronga end only.	Part of system split required for Wodonga-Dederang line outage.	7/06/2007	6:57	7/06/2007	16:37	X5	9.67	Exclusion 1.6 - The Opening of One End of a Transmission Circuit Required for operational security for line outage in Victoria.	
		1-2007-P0560	Line de-energised for EnergyAustralia.	Request from EnergyAustralia.	7/06/2007	9:00	7/06/2007	12:13	96F	3.22	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		1-2007-P0561	Opened at Port Macquarie only.	Pre-contingent action for outage 1-2007-P0560 on 96F Feeder.	7/06/2007	9:00	7/06/2007	12:13	964	3.22	Exclusion 1.6 - The Opening of One End of a Transmission Circuit Required for operational security for outage 1-2007-P0560.	
		3-2007-P0504	Opened at Yass end only.	Part of system split required for Wodonga-Dederang line outage.	8/06/2007	6:58	8/06/2007	15:30	990	8.53	Exclusion 1.6 - The Opening of One End of a Transmission Circuit Required for operational security for line outage in Victoria.	
		3-2007-P0505	Opened at Murrumburrah end only.	Part of system split required for Wodonga-Dederang line outage.	8/06/2007	6:59	8/06/2007	15:29	991	8.5	Exclusion 1.6 - The Opening of One End of a Transmission Circuit Required for operational security for line outage in Victoria.	
		3-2007-P0506	Opened at Wagga 330 end only.	Part of system split required for Wodonga-Dederang line outage.	8/06/2007	6:59	8/06/2007	15:29	993	8.5	Exclusion 1.6 - The Opening of One End of a Transmission Circuit Required for operational security for line outage in Victoria.	
		3-2007-P0503	Opened at Wagga 330 end only.	Part of system split required for Wodonga-Dederang line outage.	8/06/2007	6:57	8/06/2007	15:29	996	8.53	Exclusion 1.6 - The Opening of One End of a Transmission Circuit Required for operational security for line outage in Victoria.	
		3-2007-P0502	Opened at Buronga end only.	Part of system split required for Wodonga-Dederang line outage.	8/06/2007	6:57	8/06/2007	15:28	X5	8.52	Exclusion 1.6 - The Opening of One End of a Transmission Circuit Required for operational security for line outage in Victoria.	
		3-2007-P0511	Line de-energised for work at T3 Power Station as requested by Snowy Hydro.	Request from Snowy Hydro.	13/06/2007	12:57	13/06/2007	16:02	L1	3.08	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		1-2007-P0572	Line isolated for One Steel. The line is directly connected to OneSteel's transformer at the customer end.	Request from customer.	14/06/2007	7:31	14/06/2007	15:22	96X	7.85	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-F0158	Line tripped on intertrip receive from T1 Power Station.	Overtemperature alarm on Snowy Hydro transformer when unit synchronised.	18/06/2007	6:20	18/06/2007	7:32	U3	1.2	Exclusion 1.2 - 3rd Party Outage Intertrip received from Snowy Hydro's T1 Power Station.	TransGrid Forced and Emergency Outage Report
		1-2007-P0581	Line isolated and earthed for EnergyAustralia.	Request from EnergyAustralia.	20/06/2007	7:33	20/06/2007	16:16	962	8.72	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		1-2007-P0585	Line isolated and earthed for EnergyAustralia.	Request from EnergyAustralia.	21/06/2007	7:35	21/06/2007	16:26	962	8.85	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0560	Line isolated for work at M1 Power Station as requested by Snowy Hydro.	Request from Snowy Hydro.	24/06/2007	10:49	24/06/2007	16:20	M3	5.52	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0564	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	28/06/2007	7:23	28/06/2007	14:00	M5	6.62	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0573	Opened at Wagga 330 end only.	Required for 99B Feeder outage.	29/06/2007	10:15	29/06/2007	12:42	996	2.45	Exclusion 1.6 - The Opening of One End of a Transmission Circuit Required for operational security for 99B Feeder outage.	
		3-2007-F0168	Line tripped due to a fault on a voltage transformer at Snowy Hydro's M2 Power Station.	Intertrip received from power station.	3/07/2007	17:10	4/07/2007	16:56	M11	23.77	Exclusion 1.2 - 3rd Party Outage Intertrip received from Snowy Hydro's M2 Power Station.	TransGrid Forced and Emergency Outage Report
3-2007-P0585	Line isolated and earthed for SP AusNet.	Request from SP AusNet.	9/07/2007	6:34	9/07/2007	14:54	OX1	8.33	Exclusion 1.2 - 3rd Party Outage Requested by customer.			
3-2007-P0613	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	18/07/2007	10:31	18/07/2007	15:20	M5	4.82	Exclusion 1.2 - 3rd Party Outage Requested by customer.			
3-2007-S0004	Line de-energised as requested by SP AusNet.	Faulty current transformer at Wodonga.	9/08/2007	20:51	9/08/2007	22:02	O60	1.18	Exclusion 1.2 - 3rd Party Outage Requested by customer.			
3-2007-P0659	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	10/08/2007	7:38	10/08/2007	15:56	M13	8.3	Exclusion 1.2 - 3rd Party Outage Requested by customer.			
3-2007-P0684	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	14/08/2007	7:24	16/08/2007	8:40	M11	49.27	Exclusion 1.2 - 3rd Party Outage Requested by customer.			

S1	Transmission line availability (cont'd)	3-2007-F0192	Line tripped due to a spurious trip from the pumping station intertrip systems.	Intertrip received from pumping station.	23/08/2007	11:38	23/08/2007	13:51	97L		2.22	Exclusion 1.2 - 3rd Party Outage Intertrip received from Snowy Hydro's Pumping Station.	TransGrid Forced and Emergency Outage Report
		3-2007-P0733	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	3/09/2007	7:39	6/09/2007	9:04	L3		73.42	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0725	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	6/09/2007	9:35	6/09/2007	15:18	L1		5.72	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0740	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	7/09/2007	12:39	9/09/2007	16:22	M13		51.72	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0744	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	11/09/2007	7:20	11/09/2007	15:32	L5		8.2	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0749	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	12/09/2007	7:32	12/09/2007	16:03	M7		8.52	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0778	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	17/09/2007	11:01	21/09/2007	16:23	97L		101.37	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0773	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	17/09/2007	7:27	17/09/2007	16:22	M13		8.92	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		2-2007-P0728	Line isolated and earthed as requested by Integral Energy.	Request from Integral Energy.	17/09/2007	7:07	18/09/2007	14:29	939		31.37	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0783	Line isolated for Snowy Hydro to run units islanding.	Request from Snowy Hydro.	23/09/2007	9:00	23/09/2007	13:22	L1		4.37	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0783	Line isolated for Snowy Hydro to run units islanding.	Request from Snowy Hydro.	23/09/2007	9:00	23/09/2007	13:22	L3		4.37	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0803	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	26/09/2007	7:24	28/09/2007	15:02	L5		55.63	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		2-2007-F0157	Line tripped due to fault in EnergyAustralia system.	Fault in EnergyAustralia System.	1/10/2007	0:01	1/10/2007	1:36	250		1.58	Exclusion 1.2 - 3rd Party Outage Pilot wire trip received from Berowra.	TransGrid Forced and Emergency Outage Report
		3-2007-P0830	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	2/10/2007	7:26	5/10/2007	15:13	L3		79.78	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		1-2007-P0935	Line de-energised as requested by Country Energy.	Request from Country Energy.	3/10/2007	16:13	3/10/2007	17:45	96L		1.53	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0811	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	3/10/2007	8:20	3/10/2007	16:09	M7		7.82	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0864	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	15/10/2007	10:20	16/10/2007	16:40	M5		30.33	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0932	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	16/10/2007	2:48	13/11/2007	17:03	U3		686.25	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P0854	Line de-energised during black start tests at Kangaroo Valley switching station.	Black start tests as required of TransGrid by NEMMCO.	22/10/2007	12:04	22/10/2007	13:11	18		1.12	Exclusion 1.2 - 3rd Party Outage Black start tests required of TransGrid by NEMMCO.	
		3-2007-P0853	Line de-energised during black start tests at Kangaroo Valley switching station.	Black start tests as required of TransGrid by NEMMCO.	22/10/2007	12:03	22/10/2007	13:11	6		1.13	Exclusion 1.2 - 3rd Party Outage Black start tests required of TransGrid by NEMMCO.	
		3-2007-P1024	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	8/11/2007	11:53	14/12/2007	2:29	M9		866.6	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		1-2007-P1110	Line isolated as requested by EnergyAustralia.	Request from EnergyAustralia.	13/11/2007	7:00	13/11/2007	17:53	962		10.88	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		2-2007-P0921	Line isolated and earthed as requested by EnergyAustralia.	Request from EnergyAustralia.	16/11/2007	17:29	18/11/2007	19:33	250		50.07	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-P1053	Black start test using T3 Unit 6 pump, Lower Tumut B Bus Section 2, Upper Tumut B Bus, 64 Line, and U3 and U5 Generators.	Black start tests as required of TransGrid by NEMMCO.	17/11/2007	7:50	17/11/2007	16:01	U3		8.18	Exclusion 1.2 - 3rd Party Outage Black start tests required of TransGrid by NEMMCO.	
		3-2007-P1053	Black start test using T3 Unit 6 pump, Lower Tumut B Bus Section 2, Upper Tumut B Bus, 64 Line, and U3 and U5 Generators.	Black start tests as required of TransGrid by NEMMCO.	17/11/2007	7:50	17/11/2007	16:01	U5		8.18	Exclusion 1.2 - 3rd Party Outage Black start tests required of TransGrid by NEMMCO.	
		3-2007-P1054	Black start test using T3 Unit 6 pump, Lower Tumut B Bus Section 2, Upper Tumut B Bus, 64 Line, and U3 and U5 Generators.	Black start tests as required of TransGrid by NEMMCO.	17/11/2007	9:37	17/11/2007	13:07	64		3.5	Exclusion 1.2 - 3rd Party Outage Black start tests required of TransGrid by NEMMCO.	
		2-2007-P0923	Black start test at Guthega Power Station.	Black start tests as required of TransGrid by NEMMCO.	18/11/2007	10:44	18/11/2007	14:55	97G		4.18	Exclusion 1.2 - 3rd Party Outage Black start tests required of TransGrid by NEMMCO.	
		3-2007-P0924	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	22/11/2007	6:31	22/11/2007	15:04	L3		8.55	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
		3-2007-F0255	Line tripped on intertrip received from T3 Power Station.	Circuit breaker fail intertrip received.	5/12/2007	15:41	5/12/07	16:05	L3		0.4	Exclusion 1.2 - 3rd Party Outage Intertrip received from Snowy Hydro's T3 Power Station.	TransGrid Forced and Emergency Outage Report
		3-2007-P1008	Line isolated and earthed as requested by Snowy Hydro.	Request from Snowy Hydro.	12/12/2007	6:52	12/12/2007	15:56	L3		9.07	Exclusion 1.2 - 3rd Party Outage Requested by customer.	
3-2007-P1028	Black start test using T3 Unit 6 pump, Lower Tumut B Bus Section 2, Upper Tumut B Bus, 64 Line, and U3 and U5 Generators.	Black start tests as required of TransGrid by NEMMCO.	15/12/2007	7:34	15/12/2007	11:37	U3		4.05	Exclusion 1.2 - 3rd Party Outage Black start tests required of TransGrid by NEMMCO.			

AVERAGE OUTAGE DURATION	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	Circuits affected	Quantitative impact (hours)	Capped impact (if applicable)	Reasons for exclusion request	Further references	
Name of any average outage duration parameters applying to TransGrid	Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP assets damaged or interrupted.	A description of the cause of the event	Start date and time of event		End date and time of event		Name of circuits or plant affected	Number of hours, mins etc interrupted	Impact following any applicable cap	Full details of the reasons for excluding this event. Should include a reference to the defined exclusions and explain how it meets the exclusion definition (see Exclusion definition tab). Eg. Exclusion 1.2 Third	A TNSP may provide further details of an exclusion event. TNSP to provide reference.	
S6	Average outage restoration time	3-2007-F0038	Trip of line during bushfires in Victoria.	Bushfires in Victoria and cascade effects on transmission networks.	16/01/2007	16:03	16/01/2007	18:58	X5	2.92		Exclusion 6.6 - 3rd Party Outage due to bushfires in Victoria and cascade effects on transmission networks.	AER Decision - Investigation into the events of 16 January 2007
		3-2007-F0040	Line tripped due to a fault on busbar at Snowy Hydro's M2 Power Station.	Intertrip received from power station.	2/02/2007	23:50	3/02/2007	17:11	M11	17.35		Exclusion 6.6 - 3rd Party Outage Intertrip received from Snowy Hydro's M2 Power Station.	TransGrid Forced and Emergency Outage Report
		2-2007-F0124	Transformer tripped due to a through fault. Subsequent tests found damage to internal windings requiring replacement of the transformer.	Event occurred during switching.	19/04/2007	15:39	1/08/2007	11:20	Wallerawang 330 No.1 Tx	2491.7	168	Exclusion 6.4 - Outage Duration Longer Than 7 Days	
		3-2007-F0156	A voltage depression from a fault on Country Energy's No.4 Feeder resulted in a low voltage on the substation's 415V auxiliary supply, which caused a thyristor cooling fault on the SVC tripping the SVC.	A voltage depression from a fault on Country Energy's No.4 Railway Town Feeder.	16/06/2007	9:22	16/06/2007	10:17	Broken Hill No.1 SVC	0.92		Exclusion 6.6 - 3rd Party Outage System disturbance from third party system affected the auxiliary voltage in TransGrid's substation.	TransGrid Forced and Emergency Outage Report
		3-2007-F0157	A voltage depression from a fault on Country Energy's No.4 Feeder resulted in a low voltage on the substation's 415V auxiliary supply, which caused a thyristor cooling fault on the SVC tripping the SVC.	A voltage depression from a fault on Country Energy's No.4 Railway Town Feeder.	16/06/2007	9:22	16/06/2007	10:17	Broken Hill No.2 SVC	0.92		Exclusion 6.6 - 3rd Party Outage System disturbance from third party system affected the auxiliary voltage in TransGrid's substation.	TransGrid Forced and Emergency Outage Report
		3-2007-F0158	Line tripped on intertrip receive from T1 Power Station.	Overtemperature alarm on Snowy Hydro transformer when unit synchronised.	18/06/2007	6:20	18/06/2007	7:32	U3	1.2		Exclusion 6.6 - 3rd Party Outage Intertrip received from Snowy Hydro's T1 Power Station.	TransGrid Forced and Emergency Outage Report
		3-2007-F0168	Line tripped due to a fault on a voltage transformer at Snowy Hydro's M2 Power Station.	Intertrip received from power station.	3/07/2007	17:10	4/07/2007	16:56	M11	23.77		Exclusion 6.6 - 3rd Party Outage Intertrip received from Snowy Hydro's M2 Power Station.	TransGrid Forced and Emergency Outage Report
		3-2007-F0192	Line tripped due to a spurious trip from the pumping station intertrip systems.	Intertrip received from pumping station.	23/08/2007	11:38	23/08/2007	13:51	97L	2.22		Exclusion 6.6 - 3rd Party Outage Intertrip received from Snowy Hydro's Pumping Station.	TransGrid Forced and Emergency Outage Report
		1-2007-F0203	Transformer tripped due to operation of Delta Electricity Station Transformer No.4 protection.	Operation of Delta Electricity Station Transformer No.4 protection and signal to TransGrid's No.2 Tx protection.	18/09/2007	15:37	18/09/2007	16:01	Vales Point No.2 Tx	0.4		Exclusion 6.6 - 3rd Party Outage Intertrip received from third party system.	TransGrid Forced and Emergency Outage Report
		1-2007-F0122	Transformer tripped due to operation of Delta Electricity Station Transformer No.4 protection.	Operation of Delta Electricity Station Transformer No.4 protection and signal to TransGrid's No.2 Tx protection.	27/09/2007	0:55	27/09/07	2:03	Vales Point No.2 Tx	1.13		Exclusion 6.6 - 3rd Party Outage Intertrip received from third party system.	TransGrid Forced and Emergency Outage Report
		2-2007-F0157	Line tripped due to fault in EnergyAustralia system.	Fault in EnergyAustralia System.	1/10/2007	0:01	1/10/2007	1:36	250	1.58		Exclusion 6.6 - 3rd Party Outage Pilot wire trip received from Berowra.	TransGrid Forced and Emergency Outage Report
		2-2007-F0173	Transformer tripped due to bushing failure on blue phase.	Failure of blue phase bushing.	31/10/2007	19:39	16/11/2007	4:28	Sydney South No.4 Tx	368.82	168	Exclusion 6.4 - Outage Duration Longer Than 7 Days	
		2-2007-F0200	Transformer tripped due to water ingress to 16kV auxiliary transformer bushing chamber and remains out of service until replacement in early 2008.	Water ingress to 16kV auxiliary transformer bushing chamber.	8/11/2007	12:04	Ongoing		Sydney South No.3 Tx	1283.93	168	Exclusion 6.4 - Outage Duration Longer Than 7 Days	
3-2007-F0255	Line tripped on intertrip received from T3 Power Station.	Circuit breaker fail intertrip received.	5/12/2007	15:41	5/12/2007	16:05	L3	0.4		Exclusion 6.6 - 3rd Party Outage Intertrip received from Snowy Hydro's T3 Power Station.	TransGrid Forced and Emergency Outage Report		

NOTES:

This worksheet should include a list all events that are proposed for exclusion.

Each proposed exclusion 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" worksheet.

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

TRANSGRID- S1 - Transmission line availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Transmission line availability	98.90%	99.00%	99.50%	99.70%	99.90%
Weighting	-0.20%	-0.20%	0.00%	0.20%	0.20%

Performance Formulae	Formulae					Conditions	S- Calc 1	S- Calc 2
Performance	=	-0.002000				Where: Availability < 99.00%	-0.002000	-0.002000
	=	0.400000	x	Availability	+	-0.398000 99.00% ≤ Availability ≤ 99.50%	-0.001405	-0.000496
	=	1.000000	x	Availability	+	-0.995000 99.50% ≤ Availability ≤ 99.70%	-0.003514	-0.001239
	=	0.002000				99.70% < Availability	0.002000	0.002000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Transmission line availability	=	99.148636%	99.376095%
S-Factor	=	-0.140546%	-0.049562%

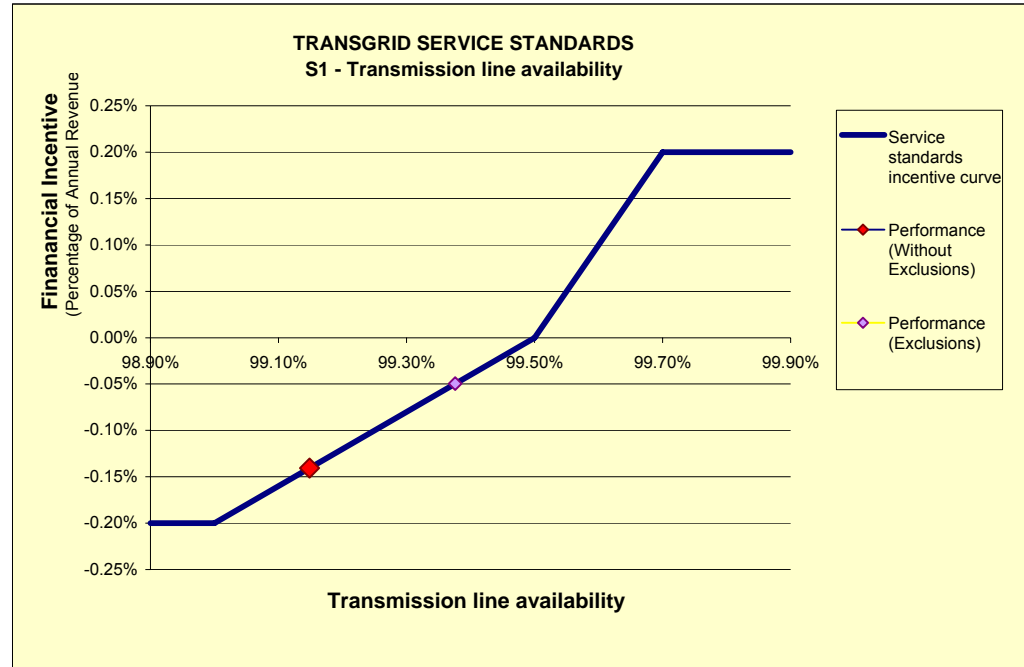
NOTE: This sheet will automatically update based on data in input sheets.

Blue cells show TNSP's performance targets and weightings.

Yellow/Green cells show TNSP's performance formulae and related formula conditions based on performance targets and weightings

Pink cells show TNSP performance outcomes without any events excluded from performance data

Orange cells show TNSP's performance outcomes with events excluded from performance data



TRANSGRID- S2 - Tranformer availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Transformer availability	97.00%	98.20%	99.00%	99.50%	100.00%
Weighting	-0.15%	-0.15%	0.00%	0.15%	0.15%

Performance Formulae	Formulae					Conditions	S- Calc 1	S- Calc 2
Performance	=	-0.001500				Where: Availability < 98.20%	-0.001500	-0.001500
	=	0.187500	x	Availability	+ -0.185625	98.20% ≤ Availability ≤ 99.00%	-0.002931	-0.002892
	=	0.300000	x	Availability	+ -0.297000	99.00% ≤ Availability ≤ 99.50%	-0.004689	-0.004627
	=	0.001500				99.50% < Availability	0.001500	0.001500

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Transformer availability	=	97.436911%	97.457746%
S-Factor	=	-0.150000%	-0.150000%

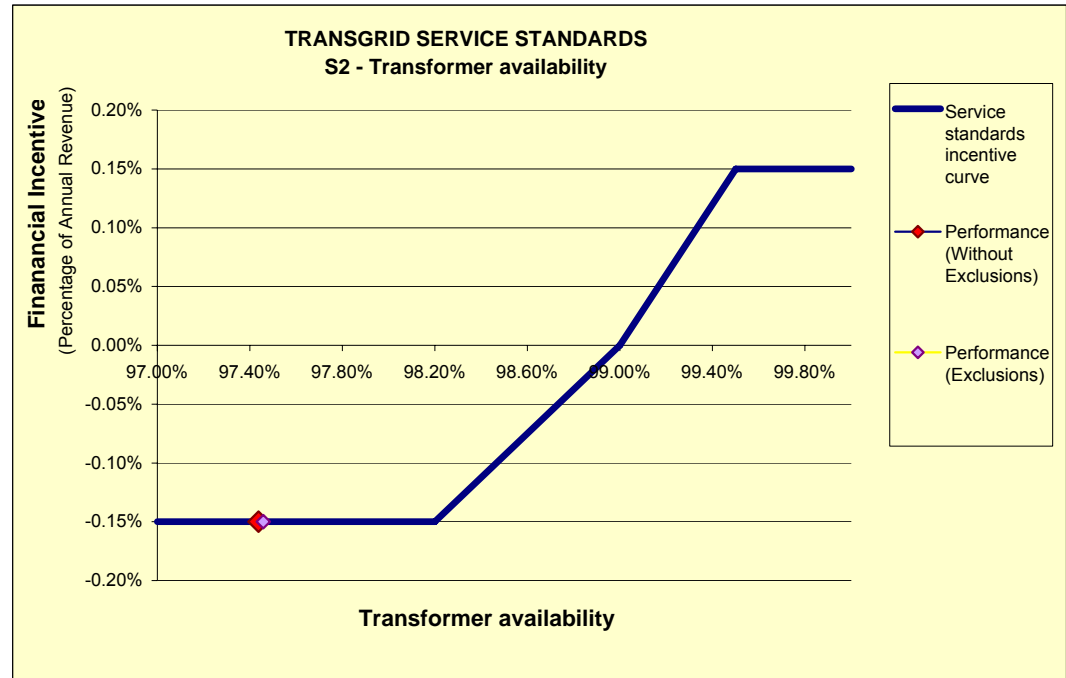
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Orange cells show TNSP's performance outcomes with events excluded from performance data



TRANSGRID- S3 - Reactive plant availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Reactive plant availability	96.50%	97.00%	98.60%	99.30%	100.00%
Weighting	-0.10%	-0.10%	0.00%	0.10%	0.10%

Performance Formulae	Formulae					Conditions	S- Calc 1	S- Calc 2
Performance	=	-0.001000				Where: Availability < 97.00%	-0.001000	-0.001000
	=	0.062500	x	Availability	+	-0.061625 97.00% ≤ Availability ≤ 98.60%	0.000395	0.000396
	=	0.142857	x	Availability	+	-0.140857 98.60% ≤ Availability ≤ 99.30%	0.000904	0.000904
	=	0.001000				99.30% < Availability	0.001000	0.001000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Reactive plant availability	=	99.232629%	99.232809%
S-Factor	=	0.090376%	0.090401%

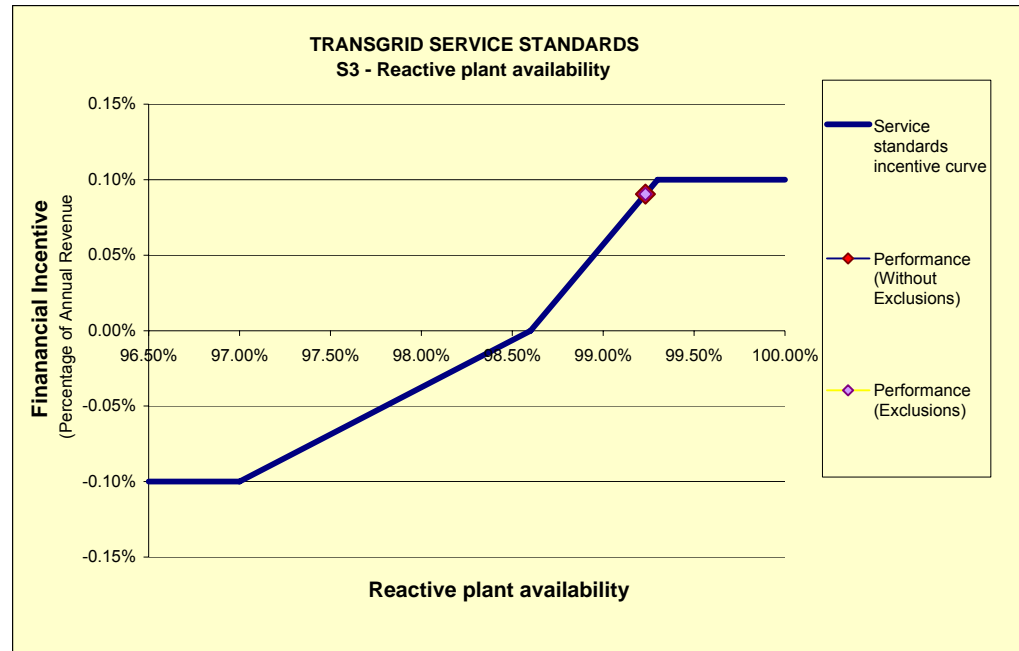
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TRANSGRID- S4 - Reliability (Events > 0.05 and <=0.4 system minutes)

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Reliability (Events > 0.05 and <=0.4 system minutes)	10	8	5	3	0
Weighting	-0.25%	-0.25%	0.00%	0.25%	0.25%

Performance Formulae	Formulae					Conditions			S- Calc 1	S- Calc 2	
Performance	=	-0.002500				8	<	Reliability		-0.002500	-0.002500
	=	-0.000833	x	Reliability	+	0.004167	5	≤	Reliability ≤ 8	0.000833	0.000833
	=	-0.001250	x	Reliability	+	0.006250	3	≤	Reliability ≤ 5	0.001250	0.001250
	=	0.002500							Reliability < 3	0.002500	0.002500

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Reliability (Events > 0.05 and <=0.4 system minutes)	=	4	4
S-Factor	=	0.125000%	0.125000%

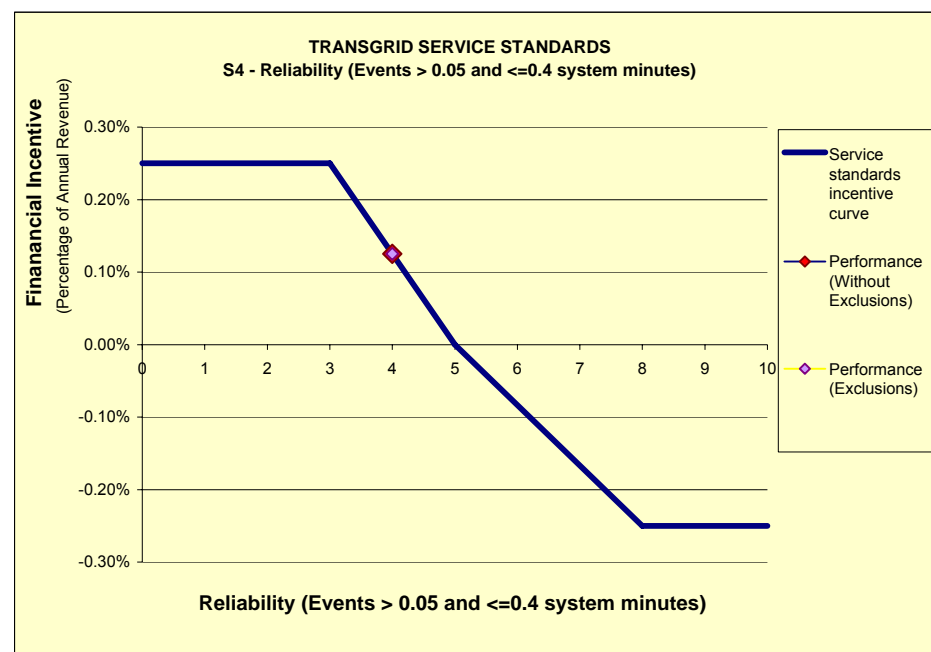
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Orange cells show TNSP's performance outcomes with events excluded from performance data



TRANSGRID- S5 - Reliability (Events > 0.4 system minutes)

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Reliability (Events > 0.4 system minutes)	3	2	1	0	0
Weighting	-0.20%	-0.20%	0.00%	0.20%	0.20%

Performance Formulae	Formulae					Conditions			S- Calc 1	S- Calc 2			
Performance	=	-0.002000				Where:	Reliability	>	2	-0.002000	-0.002000		
	=	-0.002000	x	Reliability	+	0.002000	1	≤	Reliability	≤	2	0.000000	0.000000
	=	-0.002000	x	Reliability	+	0.002000	0	≤	Reliability	≤	1	0.000000	0.000000
	=	0.002000							Reliability	<	0	0.002000	0.002000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Reliability (Events > 0.4 system minutes)	=	1	1
S-Factor	=	0.000000%	0.000000%

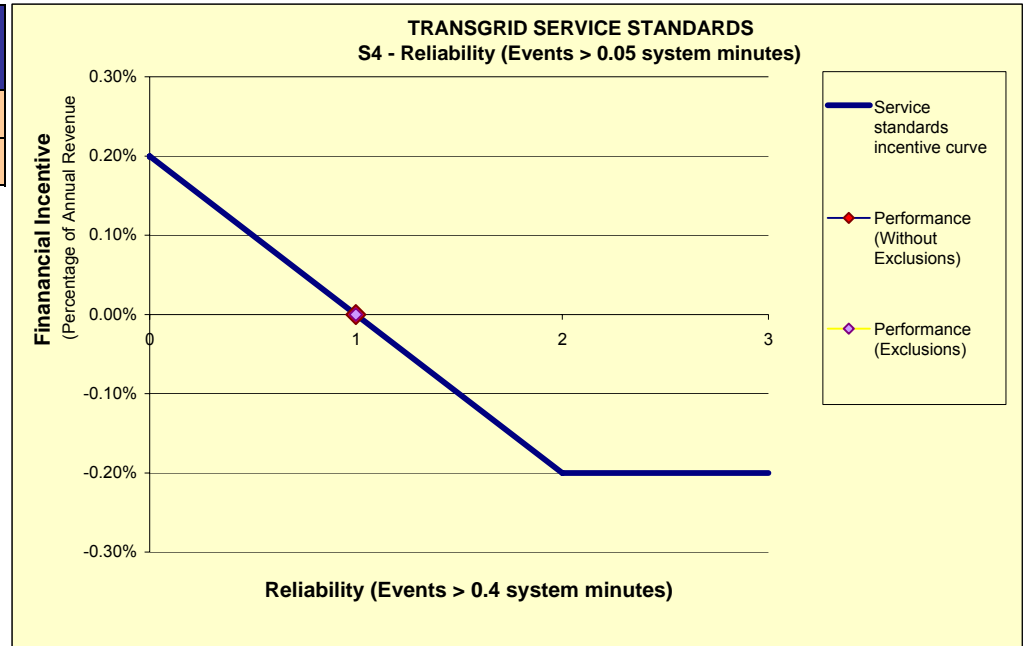
NOTE: This sheet will automatically update based on data in input sheets.

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Yellow/Green cells show TNSP's performance formulae and related formula conditions based on performance targets and weightings

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Orange cells show TNSP's performance outcomes with events excluded from performance data



TRANSGRID- S6 - Average outage restoration time

Performance Targets	Graph start	Collar	Knee Bend	Target	Knee Bend	Cap	Graph end
Average outage restoration time	1900	1800	1600	1500	1400	800	700
Weighting	0.10%	-0.10%	-0.05%	0.00%	0.05%	0.10%	0.10%

Performance Formulae	Formulae					Conditions	S- Calc 1	S- Calc 2	
Performance	=	-0.001000				Where: Average time > 1800	-0.001000	-0.001000	
	=	-0.000003	x	Average Time	+	0.003500	1600 ≤ Average time ≤ 1800	0.001421	0.001530
	=	-0.000005	x	Average Time	+	0.007500	1400 ≤ Average time ≤ 1600	0.003342	0.003559
	=	-0.000001	x	Average Time	+	0.001667	800 ≤ Average time ≤ 1400	0.000974	0.001010
	=	0.001000					Average time < 800	0.001000	0.001000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Average outage restoration time	=	832	788
S-Factor	=	0.097373%	0.100000%

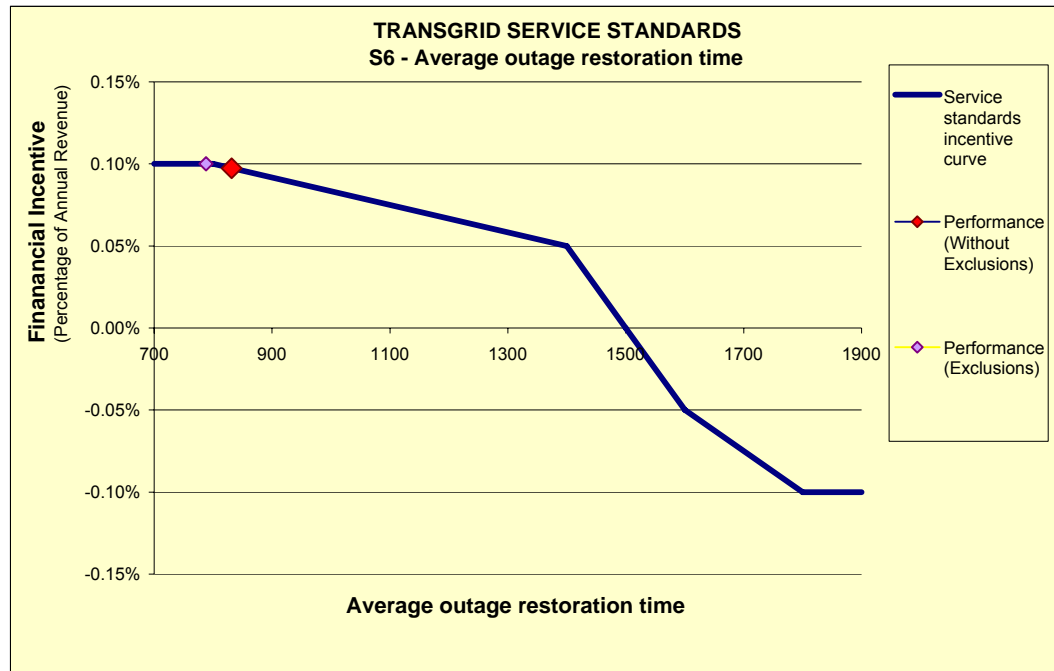
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Yellow/Green cells show TNSP's performance formulae and related formula conditions based on performance targets and weightings

Pink cells show TNSP performance outcomes without any events excluded from performance data

Orange cells show TNSP's performance outcomes with events excluded from performance data



TRANSGRID - Revenue calculation

Revenue cap information	
Base revenue	\$432,750,000
Base year	2004-05
X-factor	-2.93%
Decision CPI	2.49%

Annual revenue adjusted for CPI	Mar-04	Mar-05	Mar-06	Mar-07
CPI	144.1	147.5	151.9	155.6
	2004-05	2005-06	2006-07	2007-08
AR	\$432,750,000	\$455,939,364	\$483,297,797	\$509,575,579

Calendar year revenue	2004	2005	2006	2007
Revenue	\$216,375,000	\$444,344,682	\$469,618,580	\$496,436,688

NOTES:

This sheet will automatically update based on data on input sheets.

Grey cells show calendar year revenue

Green cells are for formula

TRANSGRID- Performance outcomes

Revenue calendar year (\$) **\$496,436,688**

Performance parameter	S	Target	Performance without exclusions			Performance with exclusions			Impact of exclusions
			Performance	S-Factor	Final Incentive	Performance	S-Factor	Final Incentive	
Transmission line availability	S1	99.500000%	99.148636%	-0.140546%	-\$697,721	99.376095%	-0.049562%	-\$246,044	0.090984%
Transformer availability	S2	99.000000%	97.436911%	-0.150000%	-\$744,655	97.457746%	-0.150000%	-\$744,655	0.000000%
Reactive plant availability	S3	98.600000%	99.232629%	0.090376%	\$448,657	99.232809%	0.090401%	\$448,785	0.000026%
Reliability (Events > 0.05 and <=0.4 system minutes)	S4	5	4	0.125000%	\$620,546	4	0.125000%	\$620,546	0.000000%
Reliability (Events > 0.4 system minutes)	S5	1	1	0.000000%	\$0	1	0.000000%	\$0	0.000000%
Average outage restoration time	S6	1500	832	0.097373%	\$483,393	788	0.100000%	\$496,437	0.002627%
TOTALS				0.022202%	\$110,221		0.115839%	\$575,069	0.093637%

NOTE:
This sheet will automatically update based on data in input sheets.

Grey cell shows relevant calendar year revenue

Green cells show performance targets

Pink cells show performance, s-factor results and financial incentive without exclusions

Orange cells show performance, s-factor results and financial incentive with exclusions

Blue cells show the impact of exclusions on revenue

Aggregate outcome	
S-factor	0.115839%
Bonus (penalty)	\$575,069
Financial year to affect revenue	2008-09

TRANSGRID - Defined exclusions

Parameter 1- Transmission Circuit Availability		
Defined exclusions	Further description of exclusion	Reference
1.1 Unregulated transmission assets		Service standards guidelines p.4
1.2 3rd party outage	Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage, customer installation (TNSP to provide list)	Service standards guidelines p.4
1.3 Force majeure		Service standards guidelines p.4
1.4 Transient interruptions less than one (1) minute		Historical exclusion applied by TransGrid
1.5 Switching to control voltages and fault levels	Switching to control voltages and fault levels within required limits, both as directed by NEMMCO and where NEMMCO does not have direct oversight of the network (in both cases only where the element is available for immediate energisation if required)	Historical exclusion applied by TransGrid
1.6 The opening of one end of a transmission circuit	The opening of only one end of a transmission circuit (eg where the transmission circuit remains energised and available to carry power with immediate manual or automatic return to service).	Historical exclusion applied by TransGrid
Parameter 2- Transformer Availability		
Defined exclusions	Further description of exclusion	Reference
2.1 Unregulated transmission assets		Service standards guidelines p.4
2.2 3rd party outage	Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage, customer installation (TNSP to provide list)	Service standards guidelines p.4
2.3 Force majeure		Service standards guidelines p.4
2.4 Transient interruptions less than one (1) minute		Historical exclusion applied by TransGrid
2.5 Auxiliary transformers		Historical exclusion applied by TransGrid
2.6 Static Var Compensator transformers	Static Var Compensator Transformers (which are counted as part of the SVC)	Historical exclusion applied by TransGrid
2.7 Switching to control voltages and fault levels	Switching to control voltages and fault levels within required limits, both as directed by NEMMCO and where NEMMCO does not have direct oversight of the network (in both cases only where the element is available for immediate energisation if required)	Historical exclusion applied by TransGrid
2.8 The opening of only one or both sides of a transformer for operational purposes	The opening of only one or both sides of a transformer for operational purposes, such as to control losses, fault levels, incompatibility of tap changes etc but where the transformer remains available to carry power on immediate manual or automatic return to service.	Historical exclusion applied by TransGrid
2.9 Transformer not switched in but available for service	The period where a transformer is made available for service, but not switched in, at the end of each day of a multi-day planned outage.	Historical exclusion applied by TransGrid
Parameter 3- Reactive Plant Availability		
Defined exclusions	Further description of exclusion	Reference
3.1 Unregulated transmission assets		Service standards guidelines p.4
3.2 3rd party outage	Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage, customer installation (TNSP to provide list)	Service standards guidelines p.4
3.3 Force majeure		Service standards guidelines p.4
3.4 Transient interruptions less than one (1) minute		Historical exclusion applied by TransGrid
3.5 Capacitor banks and reactors operating less than 66 kV		Historical exclusion applied by TransGrid
3.6 Reactive plant switched out by System Operations	Reactive plant switched out by System Operations, or left out after repairs that make it available for service for operational purposes	Historical exclusion applied by TransGrid
Parameter 4- Events > 0.05 system mins (No.)		
Defined exclusions	Further description of exclusion	Reference
4.1 Unregulated transmission assets		Service standards guidelines p.5
4.2 3rd party outage	Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage, customer installation (TNSP to provide list)	Service standards guidelines p.5
4.3 Planned outages		Service standards guidelines p.5
4.4 Force majeure		Service standards guidelines p.6
4.5 Transient interruptions less than one (1) minute		Historical exclusion applied by TransGrid
4.6 Where TransGrid protection operates correctly due to a fault on a customer's or a third party system		Historical exclusion applied by TransGrid
4.7 Pumping station supply interruption	Pumping station supply interruptions (such as Barnard River, Burrawang, Bendeeba, Kangaroo Valley and Jindabyne). These interruptions were excluded from historical data used for target setting as there being no effective loss of supply due to their ability to obtain the pumping load at a later time after restoration of supply	Historical exclusion applied by TransGrid
4.8 Outage caused by customer's own control system during a transient voltage fluctuation	Where a customer's own control/protection system trips their plant during a transient voltage fluctuation or other quality of supply event, whether caused by TransGrid or otherwise	Historical exclusion applied by TransGrid
Parameter 5 - Events > 0.40 system mins (No.)		
Defined exclusions	Further description of exclusion	Reference
5.1 Unregulated transmission assets		Service standards guidelines p.5
5.2 3rd party outage	Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage, customer installation (TNSP to provide list)	Service standards guidelines p.5
5.3 Planned outages		Service standards guidelines p.5
5.4 Force majeure		Service standards guidelines p.5
5.5 Transient interruptions less than one (1) minute		Historical exclusion applied by TransGrid
5.6 Where TransGrid protection operates correctly due to a fault on a customer's or a third party system		Historical exclusion applied by TransGrid
5.7 Pumping station supply interruption	Pumping station supply interruptions (such as Barnard River, Burrawang, Bendeeba, Kangaroo Valley and Jindabyne). These interruptions were excluded from historical data used for target setting as there being no effective loss of supply due to their ability to obtain the pumping load at a later time after restoration of supply	Historical exclusion applied by TransGrid
5.8 Outage caused by customer's own control system during a transient voltage fluctuation	Where a customer's own control/protection system trips their plant during a transient voltage fluctuation or other quality of supply event, whether caused by TransGrid or otherwise	Historical exclusion applied by TransGrid
Parameter 6 - Average Outage Restoration Time		
Defined exclusions	Further description of exclusion	Reference
6.1 Transient interruptions less than one (1) minute		Service standards guidelines p.6
6.2 Unregulated transmission assets		Service standards guidelines p.6
6.3 Planned outages		Service standards guidelines p.6
6.4 Outage duration longer than 7 days	The portion of outage duration longer than 7 days (168 hours) That is, each individual outage is capped at 7 days.	TransGrid revenue cap p.173
6.5 Force majeure		Service standards guidelines p.6
6.6 3rd party outage	Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage, customer installation, customer request or NEMMCO direction	Historical exclusion applied by TransGrid
6.7 Outages for capacitor banks and reactors operating at <66kV		Historical exclusion applied by TransGrid