TEMPLATE EXPLANATION



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

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

Purple worksheets 'S1' to 'S6' are the s-factor 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 the TNSP's performance in 'Inputs-Performance' and 'Revenue Calculation' worksheets.

TransGrid - SERVICE STANDARDS PERFORMANCE

			Performance	Inputs			
s	Performance parameter	Collar	Collar Target Cap Revenue at Risk				Performance (With exclusions)
S1	Transmission line availability	99.05%	99.26%	99.36%	0.20%	98.44%	98.59%
S2	Transformer availability	97.33%	98.61%	98.89%	0.15%	98.32%	98.32%
S3	Reactive plant availability	98.65%	99.12%	99.33%	0.10%	95.28%	95.28%
	Loss of supply event frequency >0.05 system minutes	4	2	1	0.250%	0	0
	Loss of supply event frequency >0.25 system minutes	2	1	0	0.100%	0	0
S6	Average outage duration	999	824	649	0.200%	2868	2758.31

Revenue Determinat	tion Inputs
TNSP:	TransGrid
STPIS version:	March, 2008
Regulatory Determination	2009/10 - 2013/14
Transitional year	2014/15
Base Year Allowed Revenue	\$678,400,000
Base Year	2009-10
X-factor	-5.61%
Commencement of regulatory year	1-Jul-09

Other inputs										
Assessment Period	1H 2015									
Financial year to affect revenue:	2016/17									
Date prepared:	13 January 2016									
Revision date:										
Network in	formation									
No of circuits	209.67									
No of transformers	185.00									
No of reactive plant	137.00									

information -	tage duration performance exclusions
Number of events	91
Total unplanned outage duration (system	
minutes)	260987

Average outage duration information - performance with exclusions									
Number of	Judiono								
excluded									
connection									
point events	4								
Total									
unplanned									
outage									
duration									
(system									
minutes)	239973								
Total number									
of connection									
point events									
point overto	87								

	Other Inputs												
Annual revenue adjusted for C	Mar-09	Mar-10	Mar-11	Mar-12	Mar-13	Mar-14							
CPI (old base)	166.2	171.0	176.7	179.5									
CPI (new base)	92.5	95.2	98.3	99.9	102.4	105.4							

NOTE:

Pink cells - Performance without exclusions input cells

Orange cells - Performance with exclusions input cells

Green cells - Other inputs

Blue cells - Inputs sourced from the revenue determination

Performance is based on a calendar year or the proportion of a calendar year that applies in each regulatory period.

TransGrid - Proposed exclusions

	Grid - Propose IT AVAILABILITY	Event	Description of the event and its impact on the	Cause of the event	Start date	Start time	End date	End time	Total hours unavailable	Circuits affected	Reactive plant or	Quantitative	Reasons for exclusion request	Further references
		exclusion	network and performance						unavailable		transformer	Impact Impact of exclusion	Full details of the reason/s for excluding this event. Should	d
Name of a paramete	ny circuit availability s	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		End date and time			circuits or plant affected	Name of any equipment affected	event on availability sub- parameter	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			132kV Transmission Line 250 outage to conduct condemned pole replacement and maintenance work requested by Ausgrid.	Request from Ausgrid.	4/01/2015	14:53:00	9/01/2015	16:30:00	121.617 250 Syd	lney North - Berowra 132kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 180193 - 132kV TL 250 - 04_01_2015.msg
S1		180563	330kV Transmission Line U5 to undertake Tumut 2 power station project work requested by Snowy Hydro.	Request from Snowy Hydro.	6/01/2015	11:44:00	6/01/2015	18:41:00	6.950 U5 Upp	er Tumut - Tumut 2 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outages 180563 180564 - 330kV TL U5 & U7 - 06_01_2015.msg & Excluded Outages 180563 180564 - 330kV TL U5 & U7 - 06_01_2015 - Additional supporting documentation.msg
S1		180564	330kV Transmission Line U7 to undertake Tumut 2 power station project work requested by Snowy Hydro.	Request from Snowy Hydro.	6/01/2015	11:48:00	6/01/2015	15:52:00	4.067 U7 Upp	er Tumut - Tumut 2 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outages 180563 180564 - 330kV TL U5 & U7 - 06_01_2015.msg & Excluded Outages 180563 180564 - 330kV TL U5 & U7 - 06_01_2015 - Additional supporting documentation.msg
S1		181016	330kV Transmission Line M7 outage to conduct Murray 1 power station transformer work requested by Snowy Hydro.	Request from Snowy Hydro.	7/01/2015	14:25:00	20/01/2015	16:01:00	313.600 M7 Mur	ray - Murray 1 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 181016 - 330kV TL M7 - 07_01_2015.msg
S1		180453	Nation 330kV Transmission Line M5 outage to conduct Murray 1 power station transformer work requested by Snowy Hydro.	Request from Snowy Hydro.	8/01/2015	8:54:00	8/01/2015	15:43:00	6.817 M5 Mur	ray - Murray 1 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 180453 - 330kV TL M5 - 08_01_2015.msg
S1		181283	330kV Transmission Line M5 outage to conduct Murray 1 power station transformer work requested by Snowy	Request from Snowy Hydro.	15/01/2015	10:20:00	15/01/2015	15:21:00	5.017 M5 Mur	ray - Murray 1 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 181283 - 330kV TL M5 - 15_01_2015.msg
S1		181431	Hydro. 330kV Transmission Line L1 outage to conduct at Tumut 3 power station synchronise test work requested by	Request from Snowy Hydro.	18/01/2015	7:30:00	19/01/2015	16:00:00	32.500 L1 Lowe	er Tumut - Tumut 3 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 181431 - 330kV TL L1 - 18_01_2015.msg
S1		181038	Snowy Hydro. 132kV Transmission Line 996 outage to conduct project	Request from Essential Energy.	19/01/2015	7:41:00	19/01/2015	7:55:00	0.233 996 Wa	gga 330 - ANM tee Morven 132kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 181038 - 132kV TL 996 - 19_01_2015.msg
S1		181039	work requested by Essential Energy. 132kV Transmission Line 996 outage to conduct project	Request from Essential Energy.	19/01/2015	12:11:00	19/01/2015	12:28:00	0.283 996 Wa	gga 330 - ANM tee Morven 132kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 181039 - 132kV TL 996 - 19_01_2015.msg
S1		179271	work requested by Essential Energy. 132kV Transmission Line 963 outage to conduct line work	Request from Ausgrid.	30/01/2015	8:57:00	30/01/2015	16:32:00	7.583 963 Tor	nago330 - Taree T Hawksnest 132kV		0.000	Exclusion 1.2 Third party event	Excluded Outage 179271 - 132kV TL 963 - 30_01_2015.msg
S1		180416	requested by Ausgrid. 330kV Transmission Line 32 outage to conduct line work requested by Sydney Trains.	Request from Sydney Trains.	31/01/2015	6:02:00	31/01/2015	16:52:00	10.833 32 Sydr	ey West - Bayswater 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 180416 - 330kV TL 32 - 31_01_2015.msg
S1		180417	330kV Transmission Line 32 outage to conduct line work requested by Sydney Trains.	Request from Sydney Trains.	1/02/2015	6:01:00	1/02/2015	13:49:00	7.800 32 Sydr	ey West - Bayswater 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 180417 - 330kV TL 32 - 01_02_2015.msg
S1		182542	132kV Transmission Line 97L outage to conduct SRAS restart test work requested by Snowy Hydro.	Request from Snowy Hydro.	1/02/2015	10:33:00	1/02/2015	13:56:00	3.383 97L Gui	hega - Jindabyne Pumps 132kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 182540 182542 - 330kV TL M1 & 132kV TL 97L - 01_02_2015.msg
S1		182540	330kV Transmission Line M1 outage to conduct SRAS restart test work requested by Snowy Hydro.	Request from Snowy Hydro.	1/02/2015	11:09:00	1/02/2015	14:41:00	3.533 M1 Mur	ray - Murray 1 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 182540 182542 - 330kV TL M1 & 132kV TL 97L - 01_02_2015.msg
S1		181383	132kV Transmission Line 96Y outage to conduct tree trimming work requested by Ausgrid	Request from Ausgrid.	2/02/2015	10:24:00	2/02/2015	17:21:00	6.950 96Y Wa	ratah West - Mayfield West 132kV TI	_	0.000	Exclusion 1.2 Third party event	Excluded Outage 181383 - 132kV TL 96Y - 02_02_2015.msg
S1		182229	132kV Transmission Line 97L outage to conduct fuse removal work requested by Snowy Hydro.	Request from Snowy Hydro.	12/02/2015	8:10:00	12/02/2015	17:33:00	9.383 97L Gui	hega - Jindabyne Pumps 132kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 182229 - 132kV TL 97L - 12_02_2015.msg
S1		183612	330kV Transmission Line M1 outage to conduct SRAS restart test work requested by Snowy Hydro.	Request from Snowy Hydro.	15/02/2015	9:17:00	15/02/2015	13:25:00	4.133 M1 Mur	ray - Murray 1 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 183612 183614 - 330kV TL M1 & 132kV TL 97L- 15_02_2015/msg
S1		183614	132kV Transmission Line 97L outage to conduct SRAS restart test work requested by Snowy Hydro.	Request from Snowy Hydro.	15/02/2015	9:18:00	15/02/2015	12:58:00	3.667 97L Gul	hega - Jindabyne Pumps 132kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 183612 183614 - 330kV TL M1 & 132kV TL 97L- 15_02_2015/msg
S1		182606	132kV Transmission Line 945 outage to conduct work requested by Essential Energy.	Request from Essential Energy.	24/02/2015	8:22:00	24/02/2015	16:14:00	7.867 945 We	llington - Molong tee Well'n Town		0.000	Exclusion 1.2 Third party event	Excluded Outage 182606 - 132kV TL 945 - 24_02_2015.msg
S1		183827	330kV Transmission Line U3 outage to conduct trial SRAS test work requested by Snowy Hydro.	Request from Snowy Hydro.	8/03/2015	8:57:00	8/03/2015	16:47:00		er Tumut - Tumut 1 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outages 183827 183828 183822 - 330kV TL U3 & U5 & 64 - 08 03 3015.msq
S1		183828	330kV Transmission Line U5 outage to conduct trial SRAS test work requested by Snowy Hydro.	Request from Snowy Hydro.	8/03/2015	8:57:00	8/03/2015	16:47:00	7.833 U5 Upp	er Tumut - Tumut 1 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outages 183827 183828 183822 - 330kV TL U3 & U5 & 64 - 08_03_3015.msg
S1		183821	330kV Transmission Line L5 outage to conduct Upper Tumut SRAS test work requested by Snowy Hydro.	Request from Snowy Hydro.	8/03/2015	9:19:00	8/03/2015	15:40:00	6.350 L5 Lowe	r Tumut - Tumut 3 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 183821 - 330kV TL L5 - 08_03_3015.msg
S1		183822	330kV Transmission Line 64 outage to conduct trial SRAS test work requested by Snowy Hydro.	Request from Snowy Hydro.	8/03/2015	9:19:00	8/03/2015	16:49:00	7.500 64 Lowe	er Tumut - Upper Tumut 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outages 183827 183828 183822 - 330kV TL U3 & U5 & 64 - 08 03 3015.msg
S1		184414	330kV Transmission Line M1 outage to conduct work requested by Snowy Hydro.	Request from Snowy Hydro.	10/03/2015	7:36:00	10/03/2015	15:42:00	8.100 M1 Mur	ray - Murray 1 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 184414 - 330kV TL M1 - 10_03_2015.msg
S1		185252	330kV Transmission Line M9 outage to conduct work requested by Snowy Hydro.	Request from Snowy Hydro.	12/03/2015	11:01:00	13/03/2015	15:31:00	28.500 M9 Mur	ray - Murray 1 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 185252 - 330kV TL M9 - 12_03_2015.msg
S1		184292	132kV Transmission Line 96Y outage to conduct tower refurbishment work requested by Ausgrid.	Request from Ausgrid.	16/03/2015	7:34:00	21/03/2015	12:27:00	124.883 96Y Wa	ratah West - Mayfield West 132kV TI	L	0.000	Exclusion 1.2 Third party event	Excluded Outage 184292 - 132kV TL 96Y - 16_03_2015.msg
S1		184931	330kV Transmission Line M3 outage to conduct work requested by Snowy Hydro.	Request from Snowy Hydro.	17/03/2015	8:25:00	17/03/2015	15:48:00	7.383 M3 Mur	ray - Murray 1 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 184931 - 330kV TL M3 - 17_03_2015.msg
S1		185179	330kV Transmission Line L5 outage to conduct work requested by Snowy Hydro.	Request from Snowy Hydro.	17/03/2015	8:27:00	17/03/2015	10:15:00		r Tumut - Tumut 3 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outages 185179 185180 185182 - 330kV TL L5 - 17_03_2015.msg
S1			330kV Transmission Line L5 outage to conduct work requested by Snowy Hydro.	Request from Snowy Hydro.	17/03/2015	10:41:00	17/03/2015	12:13:00	1.533 L5 Lowe	r Tumut - Tumut 3 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outages 185179 185180 185182 - 330kV TL L5 - 17_03_2015.msg
	nsmission line		330kV Transmission Line L5 outage to conduct work requested by Snowy Hydro.	Request from Snowy Hydro.	17/03/2015	12:31:00	17/03/2015	14:59:00	2.467 L5 Lowe	r Tumut - Tumut 3 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outages 185179 185180 185182 - 330kV TL L5 - 17_03_2015.msg
S1 av	ailability		330kV Transmission Line U3 outage to conduct trial SRAS test work requested by Snowy Hydro.	Request from Snowy Hydro.	21/03/2015	8:42:00	21/03/2015	15:01:00	6.317 U3 Upp	er Tumut - Tumut 1 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outages 183847 183849 183851 - 330kV TL U3 & 64 & U5 - 21_03_2015.msq
S1			330kV Transmission Line 64 outage to conduct trial SRAS test work requested by Snowy Hydro.	Request from Snowy Hydro.	21/03/2015	8:42:00	21/03/2015	15:01:00	6.317 64 Lowe	r Tumut - Upper Tumut 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outages 183847 183849 183851 - 330kV TL U3 & 64 & U5 - 21_03_2015.msg
S1		183851	330kV Transmission Line U5 outage to conduct trial SRAS test work requested by Snowy Hydro.	Request from Snowy Hydro.	21/03/2015	8:42:00	21/03/2015	15:01:00	6.317 U5 Upp	er Tumut - Tumut 2 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outages 183847 183849 183851 - 330kV TL U3 & 64 & U5 - 21_03_2015.msq
S1		183848	330kV Transmission Line L5 outage to conduct trial SRAS test work requested by Snowy Hydro.	Request from Snowy Hydro.	21/03/2015	8:47:00	21/03/2015	15:01:00	6.233 L5 Lowe	r Tumut - Tumut 3 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 183848 - 330kV TL L5 - 21_03_2015.msg
S1		185103	330kV Transmission Line M3 outage to conduct operator training requested by Snowy Hydro.	Request from Snowy Hydro.	23/03/2015	8:33:00	23/03/2015	16:35:00	8.033 M3 Mur	ray - Murray 1 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 185103 - 330kV TL M3 - 23_03_2015.msg
S1		185105	330kV Transmission Line M5 outage to conduct work requested by Snowy Hydro.	Request from Snowy Hydro.	25/03/2015	10:38:00	25/03/2015	11:43:00	1.083 M5 Mur	ray - Murray 1 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 185105 - 330kV TL M5 - 25_03_2015.msg
S1		183944	330kV Transmission Line 67 outage to conduct work requested by AusNet Services.	Request from AusNet Services.	31/03/2015	7:22:00	31/03/2015	16:29:00	9.117 67 Murr	ay - Dederang 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 183944 - 132kV TL 67 - 31_03_2015.msg
S1		183945	330kV Transmission Line 67 outage to conduct work requested by AusNet Services.	Request from AusNet Services.	1/04/2015	7:10:00	1/04/2015	15:31:00	8.350 67 Murr	ay - Dederang 330kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 183945 - 330kV TL 67 - 01_04_2015.msg
S1		185184	132kV Transmission Line 996 outage to conduct work requested by Essential Energy.	Request from Essential Energy.	1/04/2015	9:30:00	1/04/2015	10:00:00	0.500 996 Wa	gga 330 - ANM tee Morven 132kV TL		0.000	Exclusion 1.2 Third party event	Excluded Outage 185184 - 132kV TL 996 - 01_04_2015.msg
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	to the second se			10.00.00		10 50 00	0.019	000111 000 11111 11 10011/71			E 1 1 10
S1	185191 132kV Transmission Line 996 outage to conduct work requested by Essential Energy.	Request from Essential Energy.	1/04/2015	10:39:00	1/04/2015	10:52:00	0.217	996 Wagga 330 - ANM tee Morven 132kV TL	0.0	Exclusion 1.2 Third party event	Excluded Outage 185191 - 132kV TL 996 - 01_04_2015.msg
		Request from Essential Energy.	1/04/2015	11:37:00	1/04/2015	12:01:00	0.400	996 Wagga 330 - ANM tee Morven 132kV TL	0.0	00 5 1 1 2 7 1 1 1 1	Excluded Outage 185192 - 132kV TL 996 - 01_04_2015.msg
S1	requested by Essential Energy.									Exclusion 1.2 Third party event	
S1	186235 132kV Transmission Line 92Z outage to conduct work requested by Ausgrid.	Request from Ausgrid.	12/04/2015	15:56:00	16/04/2015	18:23:00	98.450	92Z Sydney North - Sydney East tee Mt Colah 132kV TL	0.0	Exclusion 1.2 Third party event	Excluded Outage 186235 - 132kV TL 92Z - 12_04_2015.msg
S1	185541 330kV Transmission Line L3 outage to conduct work requested by Snowy Hydro.	Request from Snowy Hydro.	20/04/2015	7:36:00	22/04/2015	15:19:00	55.717	L3 Lower Tumut - Tumut 3 330kV TL	0.0	Exclusion 1.2 Third party event	Excluded Outage 185541 - 330kV TL L3 - 20_04_2015.msg
S1	187273 132kV Transmission Line 94M outage to conduct work	Request from Essential Energy.	30/04/2015	7:45:00	30/04/2015	17:29:00	9.733	94M Mt Piper 132 - Beryl tee Mudgee 132kV	0.0	Exclusion 1.2 Third party event	Excluded Outage 187273 - 132kV TL 94M - 30_04_2015.msg
S1		Request from Snowy Hydro (including on behalf of Delta	1/05/2015	7:11:00	1/05/2015	17:12:00	10.017	23 Munmorah - Vales Point 330kV TL	0.0	Exclusion 1.2 Third party event	Excluded Outage 185365 - 330kV TL 23 - 01_05_2015.msg
S1		Electricity). Request from Snowy Hydro.	4/05/2015	11:47:00	4/05/2015	15:28:00	3.683	97L Guthega - Jindabyne Pumps 132kV TL	0.0	00 Exclusion 1.2 Third party event	Excluded Outage 187812 - 132kV TL 97L - 04_05_2015.msg
S1	requested by Snowy Hydro. 188633 132kV Transmission Line 92Z outage to conduct HV	Request from Ausgrid.	13/05/2015	19:13:00	14/05/2015	19:42:00	24.483	92Z Sydney North - Sydney East tee Mt Colah	0.0		Excluded Outage 188633 - 132kV TL 92Z - 13_05_2015.msg
S1		Request from Snowy Hydro.	14/05/2015	12:33:00	21/05/2015	13:23:00	168.833	132kV TL M9 Murray - Murray 1 330kV TL	0.0	00 Exclusion 1.2 Third party event	Excluded Outage 187693 - 330kV TL M9 - 14_05_2015.msg
S1		Request from Essential Energy.	15/05/2015	8:20:00	15/05/2015	12:43:00	4.383	96P Taree - Stroud 132kV TL	0.0		Excluded Outage 188987 - 132kV TL 96P - 15_05_2015.msg
S1		Request from Ausgrid.	25/05/2015	6:51:00	25/05/2015	16:38:00	9.783	9C8 Brandy Hill - Stroud 132kV TL	0.0		Excluded Outage 188345 - 132kV TL 9C8 - 25_05_2015.msg
S1	requested by Ausgrid. 188498 330kV Transmission Line 14 outage to conduct work	Request from Endeavour	28/05/2015	6:02:00	28/05/2015	17:11:00	11.150	14 Sydney North - Kemps Creek 330kV TL	0.0	1 1	Excluded Outage 188498 - 330kV TL 14 - 28_05_2015.msg
	requested by Endeavour Energy.	Energy. Request from Essential Energy.	10/06/2015	10:25:00	10/06/2015	15:50:00	5.417	96F Stroud - Tomago 330 132kV TL	0.0	Exclusion 1.2 Third party event	Excluded Outage 190208 - 132kV TL 96F - 10_06_2015.msg
S1	and test work requested by Essential Energy.									Exclusion 1.2 Third party event	
S1	maintenance work requested by Essential Energy.	Request from Essential Energy.	18/06/2015	8:12:00	18/06/2015	16:06:00		9C8 Brandy Hill - Stroud 132kV TL	0.0	Exclusion 1.2 Third party event	Excluded Outage 190215 - 132kV TL 9C8 - 18_06_2015.msg
S1	requested by Snowy Hydro.	Request from Snowy Hydro.	19/06/2015	10:18:00	19/06/2015	13:41:00	3.383	97L Guthega - Jindabyne Pumps 132kV TL	0.0	Exclusion 1.2 Third party event	Excluded Outage 190601 - 132kV TL 97L - 19_06_2015.msg
S1		Request from Endeavour Energy.	29/06/2015	7:31:00	29/06/2015	16:40:00	9.150	18 Dapto - Kangaroo Valley 330kV TL	0.0	Exclusion 1.2 Third party event	Excluded Outage 193981 - 330kV TL 18 - 29_06_2015.msg
S1	190603 132kV Transmission Line 097B outage to conduct work requested by Snowy Hydro.	Request from Snowy Hydro.	29/06/2015	7:53:00	9/07/2015	15:51:00	247.967	O97B Tumut - Blowering 132kV TL	0.0	Exclusion 1.2 Third party event	Excluded Outage 190603 - 132kV TL 097B - 29_06_2015.msg
S1	181253 330kV Transmission Line M1 unplanned outage due to LV cabling fault in Snowy Hydro system.	Snowy Hydro equipment fault.	8/01/2015	13:29:00	9/01/2015	18:27:00	28.967	M1 Murray - Murray 1 330kV TL	0.0	Exclusion 1.2 Third party event	Excluded Outage 181253 - 330kV TL M1 - 08_01_2015.pdf
S1	187695 330k/ Transmission Line 14 unplanned outage due to high volts occurring across pern bonds due to induction, during work undertaken by Endeavour Energy on an 11k/ cable below Transmission Line 14.	Short notice request from Endeavour Energy.	27/04/2015	14:33:00	27/04/2015	14:58:00	0.417	14 Sydney North - Kemps Creek 330kV TL	0.0	Exclusion 1.2 Third party event	Excluded Outage 187695 - 330kV TL 14 - 27_04_2015.pdf
S1	188199 330kV Transmission Line 77 unplanned outage caused by faulty multi trip relay on Wallerawang Power Station generator protection.	fault.	4/05/2015	9:29:00	4/05/2015	15:34:00		77 Wallerawang - Ingleburn 330kV TL	0.0	Exclusion 1.2 Third party event	Excluded Outage 188199 - 330kV TL 77 - 04_05_2015.msg
S1	190372 330kV Transmission Line L1 unplanned outage due to busbar failure in Snowy Hydro system.	Snowy Hydro equipment fault.	29/05/2015	12:32:00	30/05/2015	16:24:00	27.867	L1 Lower Tumut - Tumut 3 330kV TL	0.0	Exclusion 1.2 Third party event	Excluded Outage 190372 - 330kV TL L1 - 29_05_2015.msg
S1							0.000		0.0	00	
S2	181874 132/33/11kV Transformer No.1 outage at Munyang Substation to conduct equipment replacement work requested by Essential Energy.	Request from Essential Energy.	20/01/2015	8:05:00	20/01/2015	15:58:00	7.883	Munyang No.1 Transformer 132/33/11kV	0.0	Exclusion 1.2 Third party event	Excluded Outage 181874 - 132kV Munyang TX No.1 - 20_01_2015.msg
S2		Request from Essential Energy.	21/01/2015	9:02:00	21/01/2015	15:15:00	6.217	Munyang No.2 Transformer 132/33/11kV	0.0	Exclusion 1.2 Third party event	Excluded Outage 181976 - 132kV Murryang TX No.2 - 21_01_2015.msg
S2	188016 330/132/11kV Transformer No.2 outage at Vales Point	Request from Snowy Hydro (including on behalf of Delta Electricity).	1/05/2015	8:54:00	1/05/2015	17:12:00	8.300	Vales Point No.2 Transformer 330/132/11kV	0.0	Exclusion 1.2 Third party event	Excluded Outages 188016 188020 - 330kV TX VP1 No.2 & CAP VP1 No.2- 01_05_2015.msg
S2		,,					0.000		0.0	00	
S2 Transformer							0.000		0.0		
S2							0.000		0.0		
S2 S2 S2 S2 S2 S2 S2 S2 S2 S2 S2 S2 S2							0.000		0.0		
S2							0.000		0.0		
S2							0.000		0.0		
S2							0.000		0.0		
S2							0.000		0.0		
S2							0.000		0.0		
S2 S3	Substation for SRAS test.	Request from Snowy Hydro (including on behalf of Delta Electricity)	1/05/2015	8:54:00	1/05/2015	17:12:00		Vales Point No.2 Capacitor	0.0		Excluded Outages 188016 188020 - 330kV TX VP1 No.2 & CAP VP1 No.2- 01_05_2015.msg
53		Electricity).					0.000		0.0	00	
S3 Reactive plan	int						0.000		0.0		
S3 availability							0.000		0.0	00	
S3 availability S3 S3							0.000		0.0		
S3							0.000		0.0		
S3							0.000		0.0	00	

NOTE:

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 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.

TransGrid - Proposed exclusions

	OF SUPPLY EVENT FREQUENCY	Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start Start date time				Circuits affected	Maximum system demand	Demand shed and time	Quantitative impact	Reasons for exclusion request	Further references
Name of paramete	any loss of supply ers		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 a event	and time of	End date ar event	nd time of		The max system demand that occurred up until the time of the event	shed and the duration it	Impact of exclusion event on LOS	Full details of the reason/s 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.
S4														
S4	oss of supply event													
54	frequency >0.05													
S4 S4	system minutes													
S4	.,													
S4														
S5 S5														
S5														
S5 L	oss of supply event													
S5	frequency >0.25													
S5 S5														
S5														

NOTE:

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TransGrid - Proposed exclusions

A	ERAGE 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	Circu	its affected Quantitative impact	Capped impact (if applicable)	Reasons for exclusion request	Further references
	of any average outage n parameters	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 event	time of	End date and event	time of	Name of circuits or plant affected	Impact of exclusion event on AOD Parameter	Impact of capped exclusion event on AOD parameter	Full details of the reason 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.
S6			330kV Transmission Line M1 unplanned outage due to LV cabling fault in Snowy Hydro system.						M1 Murray - Murray 1 330kV TL	1738.000		Exclusion 1.2 Third party event	Excluded Outage 181253 - 330kV TL M1 - 08_01_2015.pdf
S6			330kV Transmission Line 14 unplanned outage due to high volts occurring across open bonds due to induction, during work undertaken by Endeavour Energy on an 11kV cable below Transmission Line 14.	Short notice request from Endeavour Energy.	2015-04-27	14:33:00	27/04/2015		14 Sydney North - Kemps Creek 330kV TL	25.000		Exclusion 1.2 Third party event	Excluded Outage 187695 - 330kV TL 14 - 27_04_2015.pdf
S6	Average outage duration		330kV Transmission Line 77 unplanned outage caused by multi trip relay on Wallerawang Power Station generator protection.	EnergyAustralia equipment fault.	2015-05-04	9:29:00	4/05/2015		77 Wallerawang - Ingleburn 330kV TL	365.000		Exclusion 1.2 Third party event	Excluded Outage 188199 - 330kV TL 77 - 04_05_2015.msg
S6			330kV Transmission Line L1 unplanned outage due to busbar failure in Snowy Hydro system.	Snowy Hydro equipment fault.	2015-05-29	12:32:00	30/05/2015		L1 Lower Tumut - Tumut 3 330kV TL	1672.000		Exclusion 1.2 Third party event	Excluded Outage 190372 - 330kV TL L1 - 29_05_2015.msg
S6										0.000			
S6 S6 S6										0.000			
S6										0.000			
S6										0.000	<u> </u>		

NOTE:

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.

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TransGrid - S1 - Transmission line availability

Performance Targets	Graph start	Collar	Target	Сар	Graph end
Transmission line availability		99.05%	99.26%	99.36%	99.60%
Weighting		-0.20%	0.00%	0.20%	0.20%

Performance Formulae			Form	nulae					Conditions			S- Calc 1	S- Calc 2
Performance	=	-0.002000							Availability	<	99.05%	-0.002000	-0.002000
	=	0.952381	x	Availability	+	-0.945333	99.05%	≤	Availability	≤	99.26%	-0.007765	-0.006372
	=	2.000000	x	Availability	+	-1.985200	99.26%	≤	Availability	≤	99.36%	-0.016307	-0.013382
	=	0.002000					99.36%	<	Availability			0.002000	0.002000

Performance Outcomes	Performance (Without Exclusions)	Performance (Exclusions)
Transmission line availability =	98.444639%	98.590891%
S-Factor =	-0.200000%	-0.200000%

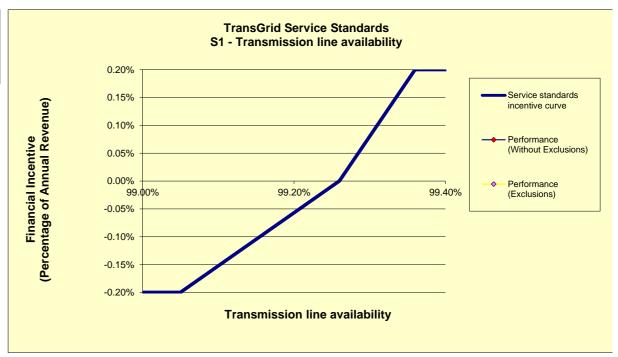
NOTE:

This sheet will automatically update based on data in input sheets

Blue cells show the TNSP's performance targets and weightings

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

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



TransGrid - S2 - Transformer availability

Performance Targets	Graph start	Collar	Target	Сар	Graph end
Transformer availability		97.33%	98.61%	98.89%	99.10%
Weighting		-0.15%	0.00%	0.15%	0.15%

Performance Formulae		Formulae						Conditions					S- Calc 2
Performance	=	-0.001500					When:		Availability	<	97.33%	-0.001500	-0.001500
	=	0.117188	x	Availability	+	-0.115559	97.33%	≤	Availability	≤	98.61%	-0.000338	-0.000335
	=	0.535714	х	Availability	+	-0.528268	98.61%	≤	Availability	≤	98.89%	-0.001547	-0.001532
	=	0.001500					98.89%	<	Availability			0.001500	0.001500

Performance Outcomes	Performance (Without Exclusions)	Performance (Exclusions)
Transformer availability =	98.321204%	98.323953%
S-Factor =	-0.033843%	-0.033521%

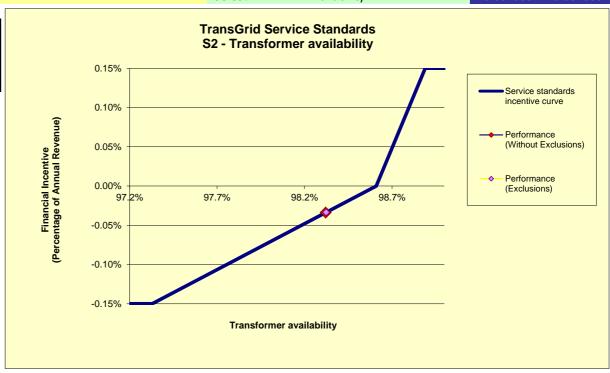
NOTE:

This sheet will automatically update based on data in input sheets

Blue cells show the TNSP's performance targets and weightings

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

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



TransGrid - S3 - Reactive plant availability

Performance Targets	Graph start	Collar	Target	Сар	Graph end
Reactive plant availability		98.65%	99.12%	99.33%	99.50%
Weighting		-0.10%	0.00%	0.10%	0.10%

Performance Formulae		Formulae						Conditions					S- Calc 2
Performance	=	-0.001000					When:		Availability	<	98.65%	-0.001000	-0.001000
	=	0.212766	Х	Availability	+	-0.210894	98.65%	≤	Availability	≤	99.12%	-0.008175	-0.008172
	=	0.476190	Х	Availability	+	-0.472000	99.12%	≤	Availability	≤	99.33%	-0.018296	-0.018290
	=	0.001000					99.33%	<	Availability			0.001000	0.001000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Reactive plant availability	=	95.277781%	95.279174%
S-Factor	=	-0.100000%	-0.100000%

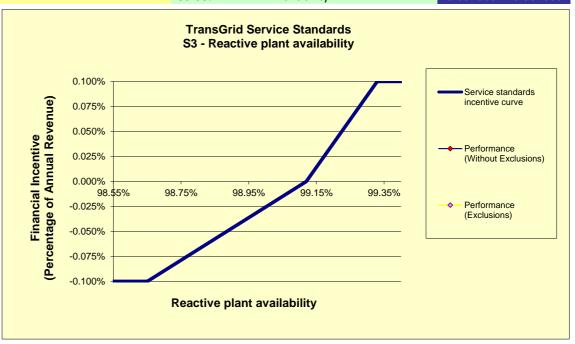
NOTE:

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Blue cells show the TNSPt's performance targets and weightings

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

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



TransGrid - S4 - Loss of supply event frequency >0.05 system minutes

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Loss of supply event frequency >0.05 system minutes		4	2	1	_
Weighting		-0.250%	0.00%	0.250%	0.25%

Performance Formulae		Formulae						Conditions		S- Calc 1	S- Calc 2
Performance	=	-0.002500					4 <	No. of events		-0.002500	-0.002500
	=	-0.001250	Х	No. of events	+	0.002500	2 ≤	No. of events ≤	4	0.002500	0.002500
	=	-0.002500	х	No. of events	+	0.005000	1 ≤	No. of events ≤	2	0.005000	0.005000
	=	0.002500						No. of events <	1	0.002500	0.002500

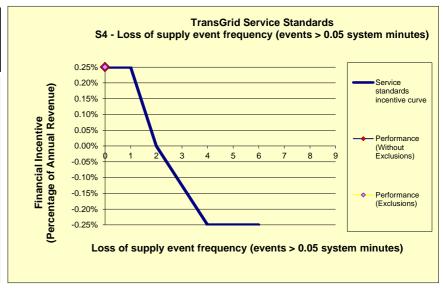
Loss of supply event frequency >0.05 system minutes	=	Performance (Without Exclusions)	Performance (Exclusions)
Loss of supply event frequency >0.05 system minutes	=	0	0
S-Factor		0.250000%	0.250000%

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

Blue cells show the TNSP's performance targets and weightings

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

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



TransGrid - S5 - Loss of supply event frequency >0.25 system minutes

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Loss of supply event frequency >0.25 system minutes		2	1	###########	##########
Weighting	-0.10%	-0.100%	0.00%	0.100%	0.10%

Performance Formulae	Performance Formulae Formulae							Conditions	S- Calc 1	S- Calc 2	
Performance	=	-0.001000					2	< No. of events		-0.001000	-0.001000
	=	-0.001000	х	No. of events	+	0.001000	1	≤ No. of events ≤	2	0.001000	0.001000
	=	-0.001000	х	No. of events	+	0.001000	0	≤ No. of events ≤	1	0.001000	0.001000
	=	0.001000						No. of events =	0	0.001000	0.001000

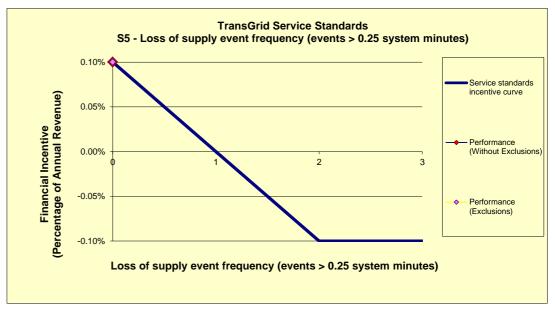
Loss of supply event frequency >0.25 system minutes	=	Performance (Without Exclusions)	Performance (Exclusions)
Loss of supply event frequency >0.25 system minutes	II	0	0
S-Factor		0.100000%	0.100000%

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

Blue cells show the TNSP's performance targets and weightings

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

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



TransGrid - S6 - Average outage duration

Performance Targets	Graph start	Collar	Target	Сар	Graph end
Average outage duration		999	824	649	_
Weighting		-0.200%	0.00%	0.200%	0.20%

Performance Formulae		Formulae						Conditions				S- Calc 1	S- Calc 2
Performance	=	-0.002000					999	<	Duration			-0.002000	-0.002000
	=	-0.000011	Х	Duration	+	0.009417	824	≤	Duration	≤	999	-0.023360	-0.022106
	=	-0.000011	Х	Duration	+	0.009417	649	≤	Duration	≤	824	-0.023360	-0.022106
	=	0.002000							Duration	<	649	0.002000	0.002000

Average outage duration	=	Performance (Without Exclusions)	Performance (Exclusions)
Average outage duration	=	2867.989848	2758.313725
S-Factor		-0.200000%	-0.200000%

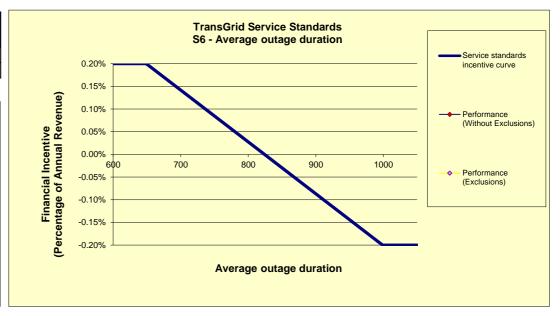
NOTE:

This sheet will automatically update based on data in input sheets

Blue cells show the TNSP's performance targets and weightings

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

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



TransGrid - Revenue Calculation

Revenue cap information	
Base year allowed revenue	\$678,400,000
Base year	2009-10
X-factor	-5.61%
Commencement of regulatory	
period	1-Jul-09

Annual revenue adjusted for						
CPI	Mar-09	Mar-10	Mar-11	Mar-12	Mar-13	Mar-14
CPI	166.2	171.0	176.7	179.5	-	-
CPI	92.5	95.2	98.3	99.9	102.4	105.4

Transitional year

Nominal annual revenue	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
Allowed Revenue	\$678,400,000	\$737,150,175	\$804,454,443	\$863,046,907	\$934,273,244	\$845,390,768

Calendar year revenue	2H 2009	2010	2011	2012	2013	2014
Revenue	\$339,200,000	\$707,775,087	\$770,802,309	\$833,750,675	\$898,660,076	\$889,832,006

NOTE:

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

\$422,695,384

s	Performance parameter	Target	Performance without exclusions Performance				mance with ex	ance with exclusions		
3	геноннансе раганіеці	Target	Performance	S-Factor	Final Incentive	Performance	S-Factor	Final Incentive	exclusions	
	Transmission line availability	99.26%	98.444639%	-0.200000%	-\$845,391	98.590891%	-0.200000%	-\$845,391	0.000000%	
	Transformer availability	98.61%	98.321204%	-0.033843%	-\$143,054	98.323953%	-0.033521%	-\$141,692	0.000322%	
	Reactive plant availability	99.12%	95.277781%	-0.100000%	-\$422,695	95.279174%	-0.100000%	-\$422,695	0.000000%	
	Loss of supply event frequency >0.05 system minutes	2	0	0.250000%	\$1,056,738	0	0.250000%	\$1,056,738	0.000000%	
	Loss of supply event frequency >0.25 system minutes	1	0	0.100000%	\$422,695	0	0.100000%	\$422,695	0.000000%	
S6	Average outage duration	824	2868	-0.200000%	-\$845,391	2758	-0.200000%	-\$845,391	0.000000%	
	TOTALS			-0.183843%	-\$777,097		-0.183521%	-\$775,735	0.000322%	
	TOTALS			-0.183843%	-\$777,097		-0.183521%	-\$775,735	0.000322%	

NOTE:

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

Grey cell shows relevant calendar year revenue

Green cells show performance measure 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

Aggregate outcome	
S-factor	-0.183521%
Financial Incentive	-\$775,735
Financial year affected by financial incentive	2016/17