## **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.

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

### **ElectraNet - SERVICE STANDARDS PERFORMANCE**

Performance Inputs													
s	Performance parameter	Collar	Target	Cap	Revenue at Risk	Performance (Without exclusions)	Performance (With exclusions)	Checksum					
S1	Total transmission circuit availability	99.02%	99.52%	99.68%	0.30%	98.622468%	99.295376%						
S2	Critical circuit availability – peak	97.36%	99.12%	99.96%	0.10%	99.510938%	99.516229%	0.00					
S3	Critical circuit availability – non-peak (zero weighting)	98.25%	99.37%	99.87%	0.00%	99.772798%	99.772798%						
S4	Loss of supply event frequency ( >0.05 system minutes )	5	4	2	0.20%	2	2	0.00					
	Loss of supply event frequency ( >0.2 system minutes )	2	1	0	0.20%	1	1	0.00					
S6	Average outage duration (minutes)	323	203	83	0.20%	38.94	43.25	0.00					

Revenue Determinat	tion Inputs
TNSP:	ElectraNet
STPIS version:	March, 2011
Regulatory Determination	2013/14 - 2017/18
Base Year Allowed Revenue	\$ 284,000,000
Base Year	2013–14
X-factor	-2.69%
Commencement of regulatory year	1-Jul-13

Other is	nputs	
Assessment Period	2H 2013	
Financial year to affect revenue:	2014/15	
Date prepared:		
Revision date:		
Circuit info	ormation	
Number of critical circuits		2:
Number of non- critical circuits		89

Number of	
connection point events	
events	18
Total unplanned	
outage duration	
(system minutes)	
	701

•	utage duration performance with
	lusions
Number of	
excluded	
connection	
point events	2
Total	
unplanned	
outage	
duration	
(system	
minutes)	692
Total number	
of connection	
point events	
point events	16

Other Inputs											
Annual revenue adjusted for (	Mar-13	Mar-14	Mar-15	Mar-16	Mar-17	Mar-18					
СРІ	102.4										

### 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.

LIECHA	Net - Proposed	l exclusions avai	ilability										
CIRCUI	T AVAILABILITY	Event proposed for exclusion	Description of the event and it impact on the network and	S Cause of the event	Start date Start time	End date End time	Total hours unavailable	Circuits affected	Reactive plant or transformer	Quantitative impact	Reasons for exclusion request	Further references	Supporting Documentation
Name of an	y circuit availability	Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the	A description of the cause of the	Start date and time of event	End date and time of event		Name of circuits or	Name of any	Impact of exclusion event on availability	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	A TNSP may provide further details of an exclusion event. TNSP to provide reference	
parameters			TNSP, assets damaged or interrupted.	event				plant affected	equipment affected	sub-parameter	definition (see Exclusion definition tab). Eg. Exclusion 1.2 Third party event.		
S1 S1		WATERLOO EAST - V	EVENT 2981 - PROTECTION MAL EVENT 2983 - WATERLOO WIND	LOPLANT FAILURE / SECONDA DF3RD PARTY	16/07/2013 10:43:00 19/07/2013 19:05:00	16/07/2013 12:07:00 26/07/2013 20:29:00	1.4	SOUTH EAST - M. WATERLOO EAS	A) N/A F N/A	N/A N/A	2.1 UNREGULATED TRANSMISSION ASSET 2.1 UNREGULATED TRANSMISSION ASSET	PROTECTION MALOPERATION WATERLOO WIND FARM CABLE FAULT	2983 Event_Investigation_
S1		NEW OSBORNE - TIP	CONFIGURE TORRENS A SWITC CONFIGURE TORRENS A SWITC	CH CUSTOMER REQUEST	21/07/2013 07:59:00 21/07/2013 07:59:00	21/07/2013 11:10:00 21/07/2013 11:10:00		NEW OSBORNE -	T N/A T N/A	N/A N/A	1.2 3RD PARTY OUTAGES 1.2 3RD PARTY OUTAGES	OUTAGE FOR BLACK START TEST VIA QUARANTINE POWER STATION OUTAGE FOR BLACK START TEST VIA QUARANTINE POWER STATION	SSP 50745 Approved.pdf SSP 50745 Approved.pdf
S1 S1			INDAVERTANT TRIP BY ORIGIN		22/07/2013 09:33:00	22/07/2013 10:09:00		TIPS A - TORREN		N/A N/A	2.1 UNREGULATED TRANSMISSION ASSET	INDAVERTANT TRIP BY ORIGIN PERSONNEL	SSP 50745 Approved.pdf 2985 Event_Investigation_
S1			OUTAGE < 1 MINUTE OUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM / ENVIRONMENTAL / STORM /	23/07/2013 01:31:00	23/07/2013 01:31:00 29/07/2013 01:17:00		HUMMOCKS - SN HUMMOCKS - SN		N/A N/A	TRANSIENT INTERUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND OUTAGE DUE TO STORM / WIND	
S1 S1			TRIP CAUSED BY GENERATOR		29/07/2013 01:17:00	29/07/2013 07:55:00		DALRYMPLE - WA		N/A N/A	TRANSIENT INTERUPTIONS LESS THAN ONE (1) MINUTE 1.2 3RD PARTY OUTAGES	OUTAGE CAUSED BY WATTLE POINT GENERATING > 60MW	Event 2991 - Investigation
S1			MALOPERATION DUE TO COMM ISOLATION FOR OCPL	UI PLANT FAILURE / SECONDA	11/08/2013 23:01:00	12/08/2013 00:11:00 19/08/2013 10:04:00		DALRYMPLE - WA	N/A	N/A N/A	2.1 UNREGULATED TRANSMISSION ASSET 1.2 3RD PARTY OUTAGES	OUTAGE CAUSED BY COMMUNICATIONS FAILURE OUTAGE FOR OCPL TO PERFORM MAINTENANCE	-
S1 S1			ISOLATION FOR OCPL	CUSTOMER REQUEST	26/08/2013 11:32:00	2/09/2013 08:11:00		NEW OSBORNE	C N/A	N/A N/A	1.2 SRD PARTY OUTAGES	OUTAGE FOR OCPL TO PERFORM MAINTENANCE	SSP 51034 Approved.pdf SSP 50887 Approved.pdf
S1			OUTAGE TO REPAIR ISOLATOR OUTAGE FOR SNOWTOWN WIN		27/08/2013 08:10:00 6/09/2013 07:01:00	27/08/2013 20:30:00 14/09/2013 16:09:00	12.33	SNUGGERY - MA	ru n/A N/A	N/A N/A	2.1 UNREGULATED TRANSMISSION ASSET 1.2 3RD PARTY OUTAGES	OUTAGE TO REPAIR ISOLATORS OUTAGE FOR WINDFARM CONNECTION	
S1 S1		HUMMOCKS - KADINA	OUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM /	12/09/2013 10:25:00	12/09/2013 10:25:00	0.00	HUMMOCKS - KA	DI N/A	N/A	TRANSIENT INTERUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	SSP 51116 Approved.pdf
S1		HUMMOCKS - SNOW	OUTAGE < 1 MINUTE SUPERVISORY SHUTDOWN FOR	ENVIRONMENTAL / LIGHTNI	12/09/2013 20:36:00 16/09/2013 14:16:00	12/09/2013 20:36:00 17/09/2013 19:40:00	0.00	HUMMOCKS - SN MURRAYLINK RE	O N/A	N/A N/A	TRANSIENT INTERUPTIONS LESS THAN ONE (1) MINUTE 1 2 3RD PARTY OUTAGES	OUTAGE DUE TO LIGHTNING OUTAGE FOR GRAYLING PERSONNEL	
S1 S1			ISOLATION FOR ALINTA FOR IN		17/09/2013 10:09:00	17/09/2013 15:04:00		DAVENPORT - NO		N/A N/A	1.2 SRD PARTY OUTAGES		SSP 8301 Approved.pdf SSP 50246 Approved.pdf
S1			OUTAGE < 1 MINUTE LOSS OF RTU AFTER SUCCESS	ENVIRONMENTAL / STORM /	30/09/2013 15:22:00 30/09/2013 15:22:00			BERRI - NORTH V MONASH - MURR	VE N/A A N/A	N/A N/A	TRANSIENT INTERUPTIONS LESS THAN ONE (1) MINUTE 2.1 UNREGULATED TRANSMISSION ASSET	OUTAGE DUE TO STORM / WIND SCADA / COMMS FAILURE	
S1 S1		ANGAS CREEK - MAN		ENVIRONMENTAL / STORM /	4/10/2013 09:54:00	30/09/2013 16:30:00 4/10/2013 09:54:00		ANGAS CREEK -		N/A N/A	TRANSIENT INTERUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1		DAVENPORT - NORTH	OUTAGE FOR ALINTA	CUSTOMER REQUEST	9/10/2013 13:20:00	9/10/2013 17:03:00	3.72	DAVENPORT - NO	N/A	N/A N/A	1.2 3RD PARTY OUTAGES 1.2 3RD PARTY OUTAGES	OUTAGE FOR ALINTA ENERGY OUTAGE FOR APA PERSONNEL	ESP Alinta 09 Oct 2013 at 1
S1 S1			OUTAGE FOR APA PERSONNEL OUTAGE ON CUSTOMER ASSET		13/10/2013 06:53:00 14/10/2013 08:15:00	13/10/2013 17:22:00 16/10/2013 15:34:00		MURRAYLINK RE		N/A N/A	1.2 3RD PARTY OUTAGES 1.2 3RD PARTY OUTAGES	UNIT MAINTENANCE FOR ORIGIN	SSP 51265 Approved.pdf SSP 50897 Approved.pdf
S1		PELICAN POINT - PEL	OUTAGE FOR INTERNATIONAL I	POCUSTOMER REQUEST	14/10/2013 09:57:00	14/10/2013 15:33:00	5.60	PELICAN POINT -	P N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR INTERNATIONAL POWER	SSP 51150 Approved.pdf
S1 S1			OUTAGE FOR TRANSFORMER A SUPERVISORY SHUTDOWN FOR		22/10/2013 09:11:00 23/10/2013 08:36:00	23/10/2013 12:48:00 23/10/2013 13:20:00	4.73	YADNARIE - MT N MURRAYLINK RE	DI N/A	N/A N/A	2.1 UNREGULATED TRANSMISSION ASSET 1.2 3RD PARTY OUTAGES	OUTAGE FOR TRANSFORMER AND PLANT SERVICE OUTAGE FOR GRAYLING PERSONNEL	SSP 8301 Approved.pdf
S1		PARA - BLYTH WEST	OUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM /	27/10/2013 16:51:00	27/10/2013 16:51:00	0.00	PARA - BLYTH W	ES N/A	N/A	TRANSIENT INTERUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1			SUPERVISORY SHUTDOWN FOI OUTAGE < 1 MINUTE	R /CUSTOMER REQUEST ENVIRONMENTAL / STORM /	14/11/2013 00:00:00 1/12/2013 16:44:00	14/11/2013 00:00:00 1/12/2013 16:44:00		MURRAYLINK RE		N/A N/A	1.2 3RD PARTY OUTAGES TRANSIENT INTERUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE FOR APT PERSONNEL (NO OUTAGE TIME RECORDED)	SSP 8301 Approved.pdf
S1		HUMMOCKS - SNOW	OUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM /	1/12/2013 08:52:00	1/12/2013 08:52:00	0.00	HUMMOCKS - SN	O N/A	N/A	TRANSIENT INTERUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1			TRIP CAUSED BY LIGHTNING / S OUTAGE < 1 MINUTE	STEENVIRONMENTAL / STORM / ENVIRONMENTAL / LIGHTNI	1/12/2013 03:53:00 1/12/2013 15:44:00	1/12/2013 10:57:00 1/12/2013 15:44:00		SLEAFORD - POR WHYALLA TERMI	T N/A N/ N/A	N/A N/A	2.1 UNREGULATED TRANSMISSION ASSET TRANSIENT INTERUPTIONS LESS THAN ONE (1) MINUTE	TRIP CAUSED BY LIGHTNING / STORM OUTAGE DUE TO STORM / WIND	
S1		BERRI - NORTH WES	OUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM /	2/12/2013 20:15:00	2/12/2013 20:15:00	0.00	BERRI - NORTH V	VE N/A	N/A	TRANSIENT INTERUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1			OUTAGE < 1 MINUTE ISOLATION FOR ALINTA FOR MA	ENVIRONMENTAL / STORM /	7/12/2013 05:45:00 9/12/2013 08:49:00	7/12/2013 05:45:00 13/12/2013 12:19:00		ROBERTSTOWN		N/A N/A	TRANSIENT INTERUPTIONS LESS THAN ONE (1) MINUTE 1.2 3RD PARTY OUTAGES	OUTAGE DUE TO STORM / WIND OUTAGE FOR ALINTA PERSONNEL	SSP 51550 Approved.pdf
S1 S1		DAVENPORT - BUNG	OUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM /	19/12/2013 14:22:00	19/12/2013 14:22:00	G	DAVENPORT - BL	IN N/A	N/A	TRANSIENT INTERUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	SSP 51550 Approved.pdf
S1			ISOLATION FOR ALINTA	CUSTOMER REQUEST CUSTOMER REQUEST	20/12/2013 23:07:00	21/12/2013 00:31:00		DAVENPORT - NO		N/A N/A	1.2 3RD PARTY OUTAGES 1.2 3RD PARTY OUTAGES	OUTAGE FOR ALINTA PERSONNEL OUTAGE FOR ALINTA PERSONNEL	ESP Alinta 20 Dec 2013 at 2 ESP Alinta 23 Dec 2013 at 1
S1 S1		DAVENPORT - NORTH	ISOLATION FOR ALINTA	CUSTOMER REQUEST	23/12/2013 14:42:00	23/12/2013 15:20:00	0.63	DAVENPORT - NO	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR ALINTA PERSONNEL	ESP Alinta 23 Dec 2013 at 1
S1													
S1 S1		Single transmission I	ine/substation redevlopment pro	CULTANA 275_132KV AUGM	ENTATION (11101)	Accumulated hours from previous years	27.67	r	T	0.0000%	1.5 CAPPED OUTAGES	PREVIOUS YEARS ACCUMULATED HOURS	
S1			CAPITAL PROJECT WORK	CULTANA 275_132KV AUGM				DAVENPORT - CL		0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1 S1			CAPITAL PROJECT WORK CAPITAL PROJECT WORK	CULTANA 275_132KV AUGM CULTANA 275_132KV AUGM	30/07/2013 10:21:00 23/09/2013 08:02:00	31/07/2013 11:35:00 23/09/2013 14:35:00	25.23	DAVENPORT - NO CULTANA - STON	N/A Y N/A	0.0000%	1.5 CAPPED OUTAGES 1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1		DAVENPORT - CULTA	CAPITAL PROJECT WORK	CULTANA 275_132KV AUGM	15/10/2013 09:07:00	15/10/2013 16:50:00	7.72	DAVENPORT - CL	IL N/A	0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1 S1			CAPITAL PROJECT WORK CAPITAL PROJECT WORK	CULTANA 275_132KV AUGM CULTANA 275_132KV AUGM		22/11/2013 13:52:00 17/12/2013 16:12:00	94.97 320.12	WHYALLA CENTR DAVENPORT - W		-0.0103% -0.0659%	1.5 CAPPED OUTAGES 1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1			CAPITAL PROJECT WORK	CULTANA 275_132KV AUGM	7/12/2013 08:07:00	7/12/2013 14:17:00	6.17	CULTANA - STON	Y N/A	-0.0013%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1													
S1			CAPITAL PROJECT WORK	MOBILONG UNIT ASSET REF	8/09/2013 8:09:0		130.47	MANNUM - MOBIL		0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1			CAPITAL PROJECT WORK CAPITAL PROJECT WORK	MOBILONG UNIT ASSET REP MOBILONG UNIT ASSET REP			57.57 32.67	MANNUM - MOBIL MOBILONG - TAIL		0.0000%	1.5 CAPPED OUTAGES 1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1	otal transmission	MOBILONG - TAILEM	CAPITAL PROJECT WORK	MOBILONG UNIT ASSET REP	30/09/2013 8:21:0		204.62	MOBILONG - TAIL	E N/A	-0.0184%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1 Ci	rcuit availability		CAPITAL PROJECT WORK CAPITAL PROJECT WORK	MOBILONG UNIT ASSET REP MOBILONG UNIT ASSET REP	9/10/2013 8:07:0 14/10/2013 8:30:0	0 12/10/2013 11:09:00 0 24/10/2013 03:20:00	75.03 234.83	MOBILONG - MUR MT BARKER - MO	R N/A B N/A	-0.0154% -0.0483%	1.5 CAPPED OUTAGES 1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1		MT BARKER - MOBILO	CAPITAL PROJECT WORK	MOBILONG UNIT ASSET REP	24/10/2013 5:18:0	0 31/10/2013 05:28:00	168.17	MT BARKER - MO	B N/A	-0.0346%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1			CAPITAL PROJECT WORK CAPITAL PROJECT WORK	MOBILONG UNIT ASSET REP MOBILONG UNIT ASSET REP			0.10	MT BARKER - MO MT BARKER - MO		0.0000%	1.5 CAPPED OUTAGES 1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1		MT BARRER - MODIE	CAFINEFROJECTWORK	WOBIEONG ONT ASSET KEP	31/10/2013 3.10.0	31/10/2013 03.20.00	0.20	MT BARRER - WO	b NVA	0.000076	1.3 CAFFED ODIAGES	CAPPED AGGREGICATE OUTAGE DURATION TO SJUTICS	
S1		POBERTSTOWN NO	CAPITAL PROJECT WORK	SA WATER PUMPING SUBST	10/09/2013 8:03:0	0 10/09/2013 08:12:00	0.15	ROBERTSTOWN	N/A	0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1		NORTH WEST BEND	CAPITAL PROJECT WORK	SA WATER PUMPING SUBST	10/09/2013 8:04:0	0 15/09/2013 08:34:00	120.50	NORTH WEST BE	N N/A	0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1			CAPITAL PROJECT WORK CAPITAL PROJECT WORK	SA WATER PUMPING SUBST SA WATER PUMPING SUBST				MORGAN WHYAL ROBERTSTOWN		0.0000%	1.5 CAPPED OUTAGES 1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1		ROBERTSTOWN - MC	CAPITAL PROJECT WORK	SA WATER PUMPING SUBST	16/09/2013 7:33:0	0 16/09/2013 13:34:00	6.02	ROBERTSTOWN	N/A	0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1			CAPITAL PROJECT WORK CAPITAL PROJECT WORK	SA WATER PUMPING SUBST SA WATER PUMPING SUBST	18/09/2013 12:53:0 24/09/2013 8:12:0		0.12	ROBERTSTOWN	N/A	0.0000%	1.5 CAPPED OUTAGES 1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1		ROBERTSTOWN - NO	CAPITAL PROJECT WORK	SA WATER PUMPING SUBST	9/10/2013 9:03:0	0 9/10/2013 09:12:00	0.15	ROBERTSTOWN	N/A	0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1			CAPITAL PROJECT WORK	SA WATER PUMPING SUBST		0 18/10/2013 08:25:00	0.18	ROBERTSTOWN		0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
51 S1			CAPITAL PROJECT WORK CAPITAL PROJECT WORK	SA WATER PUMPING SUBST SA WATER PUMPING SUBST	22/10/2013 8:30:0 26/10/2013 8:15:0		151.20 8.10	ROBERTSTOWN	N/A N/A	-0.0287% -0.0017%	1.5 CAPPED OUTAGES 1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1				SOUTH EAST BACKBONE TE		A sumpleted being from our '							
31 S1		TUNGKILLO - TAIL FM	CAPITAL PROJECT WORK	SOUTH EAST BACKBONE TE SOUTH EAST BACKBONE TE		Accumulated hours from previous years 0 9/08/2013 11:18:00	655.53 1.73	TUNGKILLO - TAI	.E N/A	-0.0004%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS	
S1													
S1 S1		PENOLA WEST - SOL	CAPITAL PROJECT WORK	SOUTH EAST DUAL PATH TE SOUTH EAST DUAL PATH TE	19/07/2013 22:29:00	216)cumulated hours from previous years 22/07/2013 20:16:00	69.78	MANNUM - MOBIL	.C N/A	-0.0144%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS	
S1					22.20.00	10.10.00							
S1		WATERI OO - TEMPI	CAPITAL PROJECT WORK	WATERI OO SUBSTATION RE	30/07/2013 7:20:0	0 30/07/2013 16:42:00	9.37	WATERI OO - TER	/F N/A	0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1		WATERLOO - TEMPLI	CAPITAL PROJECT WORK	WATERLOO SUBSTATION R	31/07/2013 7:37:0	0 31/07/2013 16:22:00	8.75	WATERLOO - TEN	AF N/A	0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1		MINTARO - WATERLO	CAPITAL PROJECT WORK CAPITAL PROJECT WORK	WATERLOO SUBSTATION RE WATERLOO SUBSTATION RE	2/08/2013 7:29:0 1/10/2013 7:56:0		8.02 675.97	MINTARO - WATE MINTARO - WATE		0.0000%	1.5 CAPPED OUTAGES 1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1		HUMMOCKS - WATER	CAPITAL PROJECT WORK	WATERLOO SUBSTATION R	30/10/2013 8:13:0	0 11/11/2013 18:57:00	298.73	HUMMOCKS - WA	T N/A	-0.0615%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1		WATERLOO - TEMPLI	CAPITAL PROJECT WORK	WATERLOO SUBSTATION RE	21/11/2013 8:07:0	0 9/12/2013 15:17:00	439.17	WATERLOO - TEN	AF N/A	-0.0904%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS	
S1				TIPS A 275kV SECONDARY S	SYSYTEMS REPLACEMENT		466.18						
S1			CAPITAL PROJECT WORK	TIPS A 275kV SECONDARY S TIPS A 275kV SECONDARY S			33.43 175.77	KILBURN - TIPS A		-0.0069%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS	
51 S1		CHERRY GARDENS -	CAPITAL PROJECT WORK CAPITAL PROJECT WORK	TIPS A 275kV SECONDARY S	21/10/2013 7:46:0 23/10/2013 17:10:0		175.77 95.87	KILBURN - NORTI CHERRY GARDEI		-0.0362% -0.0197%	1.5 CAPPED OUTAGES 1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS	
0.4			CAPITAL PROJECT WORK	TIPS A 275kV SECONDARY S	8/11/2013 7:27:0	0 9/11/2013 13:40:00	30.22	NORTHFIELD - TI	N/A	-0.0062%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS	
51			CAPITAL PROJECT WORK	TIPS A 275kV SECONDARY S	18/11/2013 8:00:0	0 19/11/2013 16:47:00	32.78	MAGILL - TIPS A		-0.0067%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS	
S1 S1 S1		KILBURN - TIPS A 275	CAPITAL PROJECT WORK	TIPS A 275kV SECONDARY S	20/11/2013 7:52:0	0 20/11/2013 15:12:00	7.33	KILBURN - TIPS A	.2 N/A	-0.0015%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS	
51 51 51 51		KILBURN - TIPS A 275	CAPITAL PROJECT WORK CAPITAL PROJECT WORK	TIPS A 275kV SECONDARY S TIPS A 275kV SECONDARY S	20/11/2013 7:52:0 25/11/2013 8:08:0			KILBURN - TIPS A PARA - TIPS A 27		-0.0015% -0.0055%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS	

<b>S1</b>														
S1		CULTANA - WHYALL	ACAPITAL PROJECT WORK	WHYALLA TERMINAL SUBS	1 25/09/2013	7:52:00	2/10/2013 08:	25:00 16	i8.55 C	CULTANA - WHYAL	N/A	0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS
S1		CULTANA - WHYALL	ACAPITAL PROJECT WORK	WHYALLA TERMINAL SUBS	1 21/10/2013	11:17:00	28/10/2013 17:	04:00 17	3.78 0	CULTANA - WHYAL	N/A	-0.0013%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS
S1		DAVENPORT - WHY	A CAPITAL PROJECT WORK	WHYALLA TERMINAL SUBS	18/12/2013	14:30:00	1/01/2014 00:	00:00 32	1.50 E	DAVENPORT - WHY	N/A	-0.0662%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS
S1														
S1														
S1			- CAPITAL PROJECT WORK	MAGILL TELECOMS BEARER		8:20:00				CHERRY GARDENS	N/A	0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS
S1			- CAPITAL PROJECT WORK	MAGILL TELECOMS BEARER		8:07:00	26/11/2013 10:	10:00 17		CHERRY GARDENS	N/A	-0.0073%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS
S1		HAPPY VALLEY - CH	ICAPITAL PROJECT WORK	MAGILL TELECOMS BEARER	F 3/12/2013	8:14:00	7/12/2013 10:	24:00 98	8.17 H	HAPPY VALLEY - C	N/A	-0.0202%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS
S1														
S1				PARA 275KV SECONDARY S					10.48					
S1			PCAPITAL PROJECT WORK	PARA 275KV SECONDARY S						TEMPLERS WEST	N/A	-0.0280%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS
S1		PARA - MAGILL 275	CAPITAL PROJECT WORK	PARA 275KV SECONDARY S	31/10/2013	20:25:00	31/10/2013 22:	44:00 2	.32 F	PARA - MAGILL 275	N/A	-0.0005%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS
S1														
S2									0.00			N/A		
S2									0.00			N/A		
S2									0.00			N/A		
S2									0.00			N/A		
S2									0.00			N/A		
S2									0.00			N/A		
S2									0.00			N/A		
S2	Critical circuit							0.	0.00			N/A		
	availability - peak		line/substation redevlopment pro											
32	aranabinty peak	Single dansmission	intersubstation redeviopment pro	lects										
S2	aranabinty peak													
52 52 52	a ranabinky peak		CAPITAL PROJECT WORK	SOUTH EAST BACKBONE TE	9/08/2013	9:34:00	9/08/2013 11:	18:00 1.	.73 1	TUNGKILLO - TAILE	N/A	-0.0053%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
S2 S2 S2 S2	a ranabinity pour				9/08/2013	9:34:00	9/08/2013 11:	18:00 1.	.73 1	TUNGKILLO - TAILE	N/A	-0.0053%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
S2 S2 S2 S2 S2	a ranasiny peak				9/08/2013	9:34:00	9/08/2013 11:	18:00 1.	.73 1	TUNGKILLO - TAILE	N/A	-0.0053%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
S2 S2 S2 S2 S2 S2 S2	a randoniky pouk				9/08/2013	9:34:00	9/08/2013 11:	18:00 1.	.73 1	TUNGKILLO - TAILE	N/A	-0.0053%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
S2 S2 S2 S2 S2 S2 S2 S2 S2	a tanabiny poar				9/08/2013	9:34:00	9/08/2013 11:	18:00 1.	.73 1	TUNGKILLO - TAILE	N/A	-0.0053%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 338HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 52 52 52 52					9/08/2013	9:34:00	9/08/2013 11:			TUNGKILLO - TAILE	N/A		1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 52 52 52 52					9/08/2013	9:34:00	9/08/2013 11:	0.	1.00	TUNGKILLO - TAILE	N/A	N/A	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 52 52 52 53 53 53					9/08/2013	9:34:00	9/08/2013 11:	0.	1.00	TUNGKILLO - TAILE	N/A	N/A N/A	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 52 52 52 53 53 53 53	erendenny pour				9/08/2013	9:34:00	9/08/2013 11:	0.00	1.00	TUNGKILLO - TAILE	N/A	N/A N/A N/A	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 52 52 53 53 53 53 53 53					9/08/2013	9:34:00	9/08/2013 11:	0.0000000000000000000000000000000000000	1.00 1.00 1.00	TUNGKILLO - TAILE	N/A	N/A N/A N/A	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 52 52 53 53 53 53 53 53 53 53 53 53					9/08/2013	9:34:00	9/08/2013 11:	0. 0. 0. 0. 0.	1.00 1.00 1.00 1.00	TUNGKILLO - TAILE	N/A	N/A N/A N/A N/A N/A	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 52 53 53 53 53 53 53 53 53 53 53	Critical circuit	TUNGKILLO - TAILEN	CAPITAL PROJECT WORK	SOUTH EAST BACKBONE TE	9/08/2013	9:34:00	9/08/2013 11:	0. 0. 0. 0. 0.	1.00 1.00 1.00	TUNGKILLO - TAILE	N/A	N/A N/A N/A	1.5 CAPPED OLITAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS -14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 52 53 53 53 53 53 53 53 53 53 53	Critical circuit availability – non-	TUNGKILLO - TAILEN		SOUTH EAST BACKBONE TE	9/08/2013	9:34:00	9/08/2013 11:	000000000000000000000000000000000000000	1.00 1.00 1.00 1.00 1.00	TUNGKILLO - TAILE	N/A	N/A N/A N/A N/A N/A N/A	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 52 53 53 53 53 53 53 53 53 53 53	Critical circuit availability – non- peak (zero	TUNGKILLO - TAILEN	CAPITAL PROJECT WORK	SOUTH EAST BACKBONE TE	9/08/2013	9:34:00	9082013 11:	0 0 0 0 0 0 0 0 0	1.00 1.00 1.00 1.00 1.00	TUNGKILLO - TAILE	N/A	N/A N/A N/A N/A N/A 0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS -14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 52 53 53 53 53 53 53 53 53 53 53	Critical circuit availability – non-	TUNGKILLO - TAILEN	CAPITAL PROJECT WORK	SOUTH EAST BACKBONE TE	9/08/2013	9:34:00	908/2013 11:	0.0000000000000000000000000000000000000	1.00 1.00 1.00 1.00 1.00 1.00	TUNGKILLO - TAILE	N/A	N/A N/A N/A N/A N/A 0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 338HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 52 53 53 53 53 53 53 53 53 53 53 53 53 53	Critical circuit availability – non- peak (zero	TUNGKILLO - TAILEN	CAPITAL PROJECT WORK	SOUTH EAST BACKBONE TE	9/08/2013	9:34:00	9082013 11:	0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.00 1.00 1.00 1.00 1.00 1.00 1.00	TUNGKILLO - TAILE	N/A	N/A N/A N/A N/A N/A 0.0000% 0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS -14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 52 52 53 53 53 53 53 53 53 53 53 53 53 53 53	Critical circuit availability – non- peak (zero	TUNGKILLO - TAILEN	CAPITAL PROJECT WORK	SOUTH EAST BACKBONE TE	9/08/2013	9:34:00	9082013 11:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00		N/A	N/A N/A N/A N/A N/A 0.0000% 0.0000% 0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 52 53 53 53 53 53 53 53 53 53 53 53 53 53	Critical circuit availability – non- peak (zero	TUNGKILLO - TAILEN	CAPITAL PROJECT WORK	SOUTH EAST BACKBONE TE	9/08/2013	9:34:00	9082013 11:		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	TUNGKILLO - TAILE	N/A	N/A N/A N/A N/A N/A 0.0000% 0.0000% 0.0000% 0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 336HRS -14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 52 52 53 53 53 53 53 53 53 53 53 53 53 53 53	Critical circuit availability – non- peak (zero	TUNGKILLO - TAILEN	CAPITAL PROJECT WORK	SOUTH EAST BACKBONE TE	9/08/2013	9:34:00	9082013 11:		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	TUNGKILLO - TAILE	N/A	N/A N/A N/A N/A 0.0000% 0.0000% 0.0000% 0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 330HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS
52 52 52 52 52 52 53 53 53 53 53 53 53 53 53 53 53 53 53	Critical circuit availability – non- peak (zero	TUNGKILLO - TAILEN	CAPITAL PROJECT WORK	SOUTH EAST BACKBONE TE	9/08/2013	9:34:00	9082013 11:		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	TUNGKILLO - TAILE	N/A	N/A N/A N/A N/A N/A 0.0000% 0.0000% 0.0000% 0.0000%	1.5 CAPPED OUTAGES	CAPPED AGGREGRATE OUTAGE DURATION TO 330HRS - 14 DAY CAP APPLIED TO PREVIOUS YEARS

### ElectraNet - Proposed exclusions - Loss of supply events

LOS	S 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 date	Start time	End date	End time	Circuits affected	Maximum system demand	Demand shed and time	Quantitative impact	Reasons for exclusion request	Further references
	of any loss of supply neters	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 a event		End date ar event	nd time of	Name of circuits or plant affected		shed and the duration it	Impact of exclusion event on LOS Parameter	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	details of an exclusion event.
<b>S4</b>														
<b>S4</b>														
<b>S4</b>	Loss of supply event													
<b>S4</b>	frequency ( >0.05 system minutes )													
<b>S4</b>	system minutes j													
S4 S4 S4														
S5 S5														
<b>S</b> 5														
<b>S</b> 5	Loss of supply event													
S5	frequency ( >0.2													
<b>S</b> 5	system minutes )													
S5 S5 S5														
<b>S</b> 5														

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.

### ElectraNet - Proposed exclusions - Average outage duration

AV	ERAGE OUTAGE	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	Capped impact (if applicable)	Reasons for exclusion request	Further references
duratio	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 an event	d time of	End date and event	time of	Name of circuits or plar	Impact of exclusion circuits or plant affected 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.
<u>S6</u>		Snowtown - Bungama 132kV line	On Tuesday 23 July 2013 at 0142 the Hummock - Snowtown - Bungama 132kV line successfully reclosed and the Hummocks TF 2 tripped. At the time SAPN were undertaking work on loss of supply to Hummocks customers. Approximately 7MW of load was lost for 4 minutes resulting in a 0.015M event. This reduced the AOD from 5 minutes to 4.5. Approximately 24MW of generation was lost at Wattle Point Wind Farm. We are seeking to exclude this event.		23/07/2013	1:42	23/07/2013	1:46	Hummocks	341:	3 4	1	CUSTOMER OUTAGE PUT ENET NETWORK	SOUTH AUSTRALIAN POWER NETWORKS (SAPN) REQUIRED TF1 AT HUMMOCKS TO BE TAKEN OUT OF SERVICE FOR THEIR PUPROSE. DURING THIS OUTAGE THE HUMMOCKS - SNOWTOWN BUNGMAM 132KV LINE SUCCESSFULLY RECLOSED WHILST A STORM PASSED OVER THE LINE. THIS RESULTED IN THE TRIPPING OF TF1 AT HUMMOCKS AND HENCE CUSTOMER LOAD. AS IT WAS SAPN'S OUTAGE THAT REDUCED THE NETWORK TO N FROM N-1 CAPABILITY THIS EVENT SHOULD BE EXCLUDED FROM THE FIGURES
<u>S6</u> <u>S6</u> <u>S6</u>	Average outage duration (minutes)	Hummokcs - Snowtown - Bungama 132kV line	On Monday 29 July 2013 at 0117 the Hummock - Snowtown - Bungama 132KV line successfully reclosed and the Hummocks TF 2 tripped. At the time SAPN were undertaking work on the Hummocks TF #1 resulting in a loss of supply to Hummocks customers. Approximately 6MW of load was lost for 5 minutes resulting in a .0.15M event. This increased the AOD from 4.5 minutes to 5. Approximately 56MW of generation was lost at Wattle point wind farm. We are seeking to exclude this event.		29/07/2013	1:17	29/07/2013	1:22	Hummocks	341:	3 5	1	CUSTOMER OUTAGE PUT ENET NETWORK INTO N CONDITION FROM N-1	SOUTH AUSTRALIAN POWER NETWORKS (SAPN) REQUIRED TF1 AT HUMMOCKS TO BE TAKEN OUT OF SERVICE FOR THEIR PURPOSE. DURING THIS OUTAGE THE HUMMOCKS - SNOWTOWN BUNCKSS-SNOWTOWN BUNCKSS-SNOWTOWN SUCCESSFULLY RECLOSED WHILST A STORM PASED OVER THI LINE. THIS RESULTED IN THE TRIPPING OF TF 1 AT HUMMOCKS AND HENCE CUSTOMER LOAD. AS IT WAS SAPN'S OUTAGE THAT REDUCED THE NETWORK TO N FROM N-1 CAPABILITY THIS EVENT SHOULD BE EXCLUDED FROM THE FIGURES

### 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.

## **ElectraNet - S1 - Total transmission circuit availability**

Performance Targets	Graph start	Collar	Target	Cap	Graph end
al transmission circuit availat		99.02%	99.52%	99.68%	99.90%
Weighting		-0.30%	0.00%	0.30%	0.30%

Performance Formulae			Form	nulae					Conditions			S- Calc 1	S- Calc 2
Performance	=	-0.003000							Availability	<	99.02%	-0.003000	-0.003000
	=	0.600000	х	Availability	+	-0.597120	99.02%	≤	Availability	≤	99.52%	-0.005385	-0.001348
	=	1.875000	х	Availability	+	-1.866000	99.52%	≤	Availability	≤	99.68%	-0.016829	-0.004212
	=	0.003000					99.68%	<	Availability			0.003000	0.003000

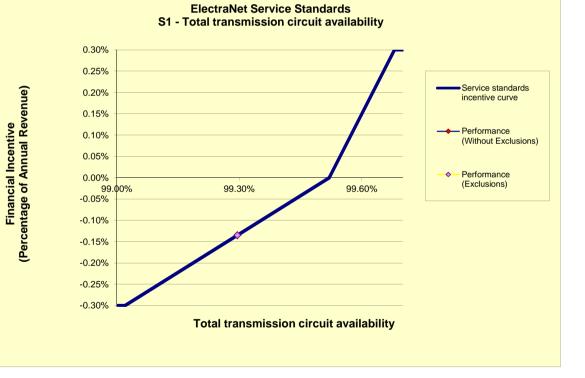
al transmission circuit availat       =       98.622468%       99.295376%         S-Factor       =       -0.300000%       -0.134774%	Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
S-Factor = -0.300000% -0.134774%	al transmission circuit availat	=	98.622468%	99.295376%
	S-Factor	=	-0.300000%	-0.134774%

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



### ElectraNet - S2 - Critical circuit availability - peak

Performance Targets	Graph start	Collar	Target	Cap	Graph end
ritical circuit availability – pea		97.36%	99.12%	99.96%	100.20%
Weighting		-0.10%	0.00%	0.10%	0.10%

Performance Formulae			Forn	nulae					Conditions			S- Calc 1	S- Calc 2
Performance	=	-0.001000					When:		Availability	<	97.36%	-0.001000	-0.001000
	=	0.056818	х	Availability	+	-0.056318	97.36%	≤	Availability	≤	99.12%	0.000222	0.000225
	=	0.119048	х	Availability	+	-0.118000	99.12%	≤	Availability	≤	99.96%	0.000465	0.000472
	=	0.001000					99.96%	<	Availability			0.001000	0.001000

Performance Outcomes	Performance (Without Exclusions)	Performance (Exclusions)
ritical circuit availability – pe: =	99.510938%	99.516229%
S-Factor =	0.046540%	0.047170%

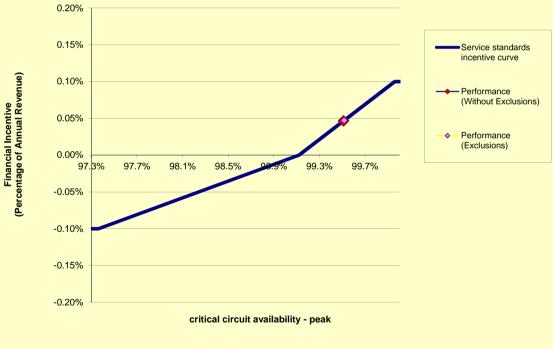
NOTE: This sheet will automatically update based on data in input sheets

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

ElectraNet Service Standards S2 - critical circuit availability - peak



## ElectraNet - S3 - Critical circuit availability - non-peak (zero weighting)

Performance Targets	Graph start	Collar	Target	Cap	Graph end
cuit availability – non-peak (zero		98.25%	99.37%	99.87%	100.10%
Weighting		0.00%	0.00%	0.00%	0.00%

Performan	ce Formulae			Form	ulae					Conditions			S- Calc 1	S- Calc 2
Pe	rformance	=	0.000000					When:		Availability	<	98.25%	0.000000	0.000000
		=	0.000000	х	Availability	+	0.00000	98.25%	≤	Availability	≤	99.37%	0.000000	0.000000
		=	0.000000	х	Availability	+	0.00000	99.37%	≤	Availability	≤	99.87%	0.000000	0.000000
		=	0.000000					99.87%	<	Availability			0.000000	0.000000

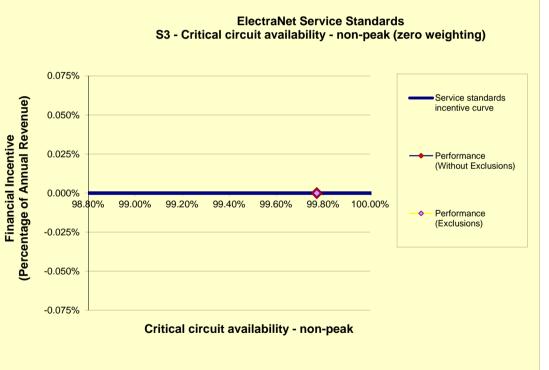
Performance Outcomes	Performance (Without Exclusions)	Performance (Exclusions)
cuit availability – non-peak (zero =	99.772798%	99.772798%
S-Factor =	0.000000%	0.000000%

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

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



ElectroNet	<b>64</b> Lass of	foundly over	froquonou		votom minutos )	
Electranet	- 34 - LUSS U	i suppiy eveni	inequency	( /0.00 5	ystem minutes )	

Performance Targets	Graph start	Collar	Target	Cap	Graph end				
Loss of supply event frequency ( >0.05 system minutes )		5	4	2					
Weighting	-0.20%	-0.200%	0.00%	0.200%	0.20%				
erformance Formulae			Formu			Conditior		S- Calc 1	S- Calc
Performance Formulae Performance	=	-0.002000	Formu	Ide		5 < No. of eve		-0.002000	
	=	-0.002000	x	No. of events	+	0.008000 4 ≤ No. of eve	nts ≤ 5	0.004000	
	=	-0.001000	х	No. of events	+	0.004000 2 ≤ No. of eve	nts ≤ 4	0.002000	0.00200
	=	0.002000				No. of eve	nts < 2	0.002000	0.00200
oss of supply event frequency ( >0.05 system minutes )	=	Performance (Without Exclusions)	Performance (Exclusions)		S4 - Loss	ElectraNet Service of supply event frequency (			minutes)
Loss of supply event frequency ( >0.05 system minutes )	=	2	2		0.20%	<b></b>			
S-Factor		0.200000%	0.200000%	(a)	0.15%				Service
OTE: This sheet will automatically update based on data in inp	it shoots			Financial Incentive (Percentage of Annual Revenue)	0.10%	<b>\</b>		5	standards ncentive curve
	at sheets			l Re	0.05%	<b>\</b>			
lue cells show the TNSP's performance targets and weightings				nua	0.00%				Performance Without
ellow/Green cells show the TNSP's performance formulae and relation	ed formula condit	tions based on	performance	f An	1	2 3 4	5		Exclusions)
argets and weightings				anci ge o	-0.05%				
ink cells show the TNSP's performance outcomes without any even	s excluded from	performance d	ata	Fin	-0.10%				Performance
range cells show the TNSP's performance outcomes with events ex	cluded from perfe	ormance data		erce	-0.15%		<b>\</b>		Exclusions)
				a)	-0.20%				
					Loss of	supply event frequency (eve	ents > 0.05	system mir	uites)
					2000 01	capping orone nequency (eve	11.5 2 0100	- cyotom mi	

## ElectraNet - S5 - Loss of supply event frequency ( >0.2 system minutes )

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Loss of supply event frequency ( >0.2 system minutes )		2	1	0	0
Weighting		-0.200%	0.00%	0.200%	

Performance Formulae			F	ormulae				Conditions		S- Calc 1	S- Calc 2
Performance	=	-0.002000					2	< No. of events		-0.002000	-0.002000
	=	-0.002000	х	No. of events	+	0.002000	1	$\leq$ No. of events $\leq$	2	0.000000	0.000000
	=	-0.002000	х	No. of events	+	0.002000	0	$\leq$ No. of events $\leq$	1	0.000000	0.000000
	=	0.002000						No. of events =	0	0.002000	0.002000

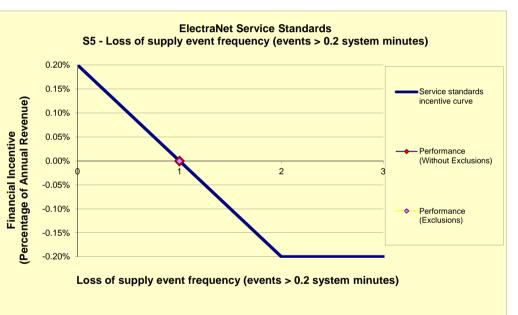
Loss of supply event frequency ( >0.2 system minutes )	=	Performance (Without Exclusions)	Performance (Exclusions)
Loss of supply event frequency ( >0.2 system minutes )	=	1	1
S-Factor		0.000000%	0.00000%

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



### **ElectraNet - S6 - Average outage duration (minutes)**

Performance Targets	Graph start	Collar	Target	Сар	Graph end
Average outage duration (minutes)		323	203	83	
Weighting		-0.200%	0.00%	0.200%	

Performance Formulae		Formulae					Conditions				S- Calc 1	S- Calc 2	
Performance	=	-0.002000					323	<	Duration			-0.002000	-0.002000
	=	-0.000017	x	Duration	+	0.003387	203	≤	Duration	≤	323	0.002738	0.002666
	=	-0.000017	х	Duration	+	0.003387	83	≤	Duration	≤	203	0.002738	0.002666
	=	0.002000							Duration	<	83	0.002000	0.002000

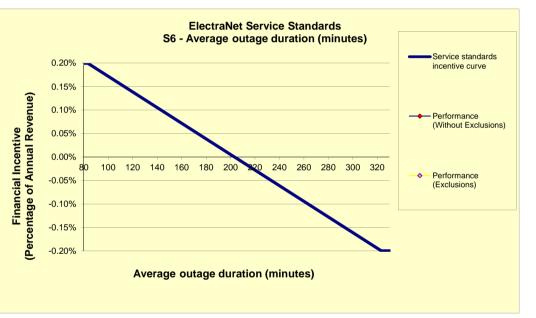
Average outage duration (minutes)	=	Performance (Without Exclusions)	Performance (Exclusions)
Average outage duration (minutes)	=	38.940000	43.250000
S-Factor		0.200000%	0.200000%

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



## **ElectraNet - Revenue Calculation**

### X-factor from AER final decision

Revenue cap information	2008-09 to 2009-10
Base year allowed revenue	
(2008-09)	\$284,000,000
Base year	2013–14
X-factor	-2.69%
Commencement of regulatory	
period	1-Jul-13

Annual revenue adjusted for						
CPI	Mar-13	Mar-14	Mar-15	Mar-16	Mar-17	Mar-18
СЫ	102.4	-	-	-	-	-

Nominal annual revenue	2013-14	2014-15	2015-16	2016-17	2017-18
Allowed Revenue	\$284,000,000				

Calendar year revenue	2H 2013	2014	2015	2016	2017	2018
Revenue	\$142,000,000					

NOTE:

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

Grey cells show calendar year revenue

Green cells are for formula

### **ElectraNet - Performance outcomes**

Revenue calendar year

\$142,000,000

	Performance parameter	_	Perform	ance without	exclusions	Perfor	Impact of		
S		Target	Performance	S-Factor	Final Incentive	Performance	S-Factor	Final Incentive	exclusions
S1	Total transmission circuit availability	99.52%	98.622468%	-0.300000%	-\$426,000	99.295376%	-0.134774%	-\$191,379	0.165226%
S2	Critical circuit availability – peak	99.12%	99.510938%	0.046540%	\$66,087	99.516229%	0.047170%	\$66,982	0.000630%
S3	Critical circuit availability – non-peak (zero weighting)	99.37%	99.772798%	0.000000%	\$0	99.772798%	0.000000%	\$0	0.000000%
S4	Loss of supply event frequency ( >0.05 system minutes )	4	2	0.200000%	\$284,000	2	0.200000%	\$284,000	0.000000%
S5	Loss of supply event frequency ( >0.2 system minutes )	1	1	0.00000%	\$0	1	0.00000%	\$0	0.00000%
S6	Average outage duration (minutes)	203.2	39	0.200000%	\$284,000	43	0.200000%	\$284,000	0.00000%
	TOTALS			0.146540%	\$208,087		0.312396%	\$443,602	0.165856%

### 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

Blue cells show the impact of exclusions on revenue

Aggregate outcome	
S-factor	0.312396%
Financial Incentive	\$443,602
Financial year affected by financial incentive	2014/15

#### ElectraNet - Defined exclusions

No. Parameter 1 - Transmission circuit availability								
		Defined exclusions	Further description of exclusion	Reference				
	1.1	Unregulated transmission assets		Appendix B STPIS (March 2011)				
	1.2		Any outages shown to be caused by a 'third party system'—eg. intertrip signals, generator outage, customer installation, customer request or AEMO direction.	Appendix B STPIS (March 2011)				
	1.3		Outages to control voltages within required limits, both as directed by AEMO and where AEMO does not have direct oversight of the network (in both cases only where the element is available for immediate energisation if required).	Appendix B STPIS (March 2011)				
	1.4	Circuit opening for operational purposes	The opening of only one end of a transmission line where the transmission line remains energised and available to carry power.	Appendix B STPIS (March 2011)				
	1.5		The number of interrupted hours related to a single transmission line redevelopment project or substation redevelopment project is capped at 336 hours (14 days).	Appendix B STPIS (March 2011)				
	1.6	Force majeure		Appendix B STPIS (March 2011)				

No. Parameter 2 - Critical circuit availability – peak

Defined exclusions	Further description of exclusion	Reference
2.1 Unregulated transmission assets		Appendix B STPIS (March 2011)
2.2 3rd party outages	Any outages shown to be caused by a 'third party system'—eg. intertrip signals, generator outage, customer installation, customer request or AEMO direction.	Appendix B STPIS (March 2011)
2.3 Outages to control voltages	Outages to control voltages within required limits, both as directed by AEMO and where AEMO does not have direct oversight of the network (in both cases only where the element is available for immediate energisation if required).	Appendix B STPIS (March 2011)
2.4 Circuit opening for operational purposes	The opening of only one end of a transmission line where the transmission line remains energised and available to carry power.	Appendix B STPIS (March 2011)
2.5 Capped outages	The number of interrupted hours related to a single transmission line redevelopment project or substation redevelopment project is capped at 336 hours (14 days).	Appendix B STPIS (March 2011)
2.6 Force majeure		Appendix B STPIS (March 2011)

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	Parameter 3 - Loss of supply event frequency		
	(>0.05 system minutes) Defined exclusions	Further description of exclusion	Reference
3.1	Successful reclose events ( <1 min duration)		Appendix B STPIS (March 2011)
3.2	Force outages	Forced outages where notification to affected customers is less than 24 hours (except where AEMO reschedules the outage after notification has been provided)	Appendix B STPIS (March 2011)
3.3	Unregulated transmission assets		Appendix B STPIS (March 2011)
3.4	3rd party outages	Any outages shown to be caused by a 'third party system'-e.g. intertrip signals, generator outage, customer installation, customer request or AEMO direction.	Appendix B STPIS (March 2011)
3.5	Planned outages		Appendix B STPIS (March 2011)
3.6	Interconnector outages	For supply outages resulting from an interconnector outage, the period of the interruption is capped at half an hour. This is done to include the impact of automatic under-frequency load shedding, but to exclude the impact of any market failure to respond and restore load within required timeframes (ie. excluding factors outside of ElectroHarler control).	Appendix B STPIS (March 2011)
3.7	Pumping station supply interruptions	Pumping station supply interruptions were excluded from historical data used for target setting due to the highly irregular nature of these loads, which makes accurate estimation of load profiles unreliable.	Appendix B STPIS (March 2011)
3.8	Force majeure		Appendix B STPIS (March 2011)
3.9	ElectraNet protection operates incorrectly ahead of third party protection	Where ElectraNet protection operates incorrectly ahead of third party protection, the portion of customer load that would have been lost had ElectraNet protection not operated is removed from the total lost load.	Appendix B STPIS (March 2011)
3.10	ElectraNet protection operates correctly due to a	Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded.	Appendix B STPIS (March 2011)

fault on a third party system

	Parameter 4 - Loss of supply event frequency		
	(>0.2 system minutes)		
	Defined exclusions	Further description of exclusion	Reference
4.1	Successful reclose events ( <1 min duration)		Appendix B STPIS (March 2011)
4.2	Force outages	Forced outages where notification to affected customers is less than 24 hours (except where AEMO reschedules the outage after notification has been provided).	Appendix B STPIS (March 2011)
4.3	Unregulated transmission assets		Appendix B STPIS (March 2011)
4.4	3rd party outages	Any outages shown to be caused by a 'third party system'—e.g. intertrip signals, generator outage, customer installation, customer request or AEMO direction.	Appendix B STPIS (March 2011)
4.5	Planned outages		Appendix B STPIS (March 2011)
4.6	Interconnector outages	For supply outages resulting from an interconnector outage, the period of the interruption is capped at half an hour. This is done to include the impact of automatic under-frequency load shedding, but to exclude the impact of any market failure to respond and restore load within required timeframes (e. excluding factors outside of ElectraNet's control).	Appendix B STPIS (March 2011)
4.7	Pumping station supply interruptions	Pumping station supply interruptions were excluded from historical data due to the highly irregular nature of these loads, which makes accurate estimation of load profiles unreliable.	Appendix B STPIS (March 2011)
4.8	Force majeure		Appendix B STPIS (March 2011)
	ElectraNet protection operates incorrectly ahead of third party protection	Where ElectraNet protection operates incorrectly ahead of third party protection, the portion of customer load that would have been lost had ElectraNet protection not operated is removed from the total lost load.	Appendix B STPIS (March 2011)
4.10	ElectraNet protection operates correctly due to a fault on a third party system	Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded.	Appendix B STPIS (March 2011)
	Parameter 5 - Average outage duration		
	Defined exclusions	Further description of exclusion	Reference
5.1	Successful reclose events ( <1 min duration)		Appendix B STPIS (March 2011)

 Defined exclusion
 Further description of exclusion
 Netherance

 15
 Successful recides event (<1 min duration)</td>
 Appendix B STPE (March 2011)

 5.1
 Successful recides event (<1 min duration)</td>
 Appendix B STPE (March 2011)

 5.2
 Intercomediate transmission assets
 any outages shown to be caused by a 'third party system' —eg intertrip signals, generator outage, customer installation, customer request or AMD
 Appendix B STPE (March 2011)

 5.4
 Planned outages
 Appendix B STPE (March 2011)
 Appendix B STPE (March 2011)

 5.5
 Interconnector outages supply interruption
 For supply outages resulting from an interconnector outage, the duration is capped at half an hour. This is done to include the impact of automating to exclude the impact of any market failure to respond and restore load within required timeframes (i.e. excluding factors outaide of ElectraNet's control).
 Appendix B STPE (March 2011)

 5.6
 Force majeure
 Appendix B STPE (March 2011)
 Appendix B STPE (March 2011)

 5.7
 ElectraNet's control).
 Appendix B STPE (March 2011)
 Appendix B STPE (March 2011)

 5.7
 Force majeure
 Mirer ElectraNet's control).
 Appendix B STPE (March 2011)

 5.7
 ElectraNet's protection operates correctly due to a fault on a third party system no lost load is recorded.
 Appendix B STPE (March

	Critical circuit availability – non-peak (zero			
	weighting)			<u> </u>
	Defined exclusions	Further description of exclusion	Reference	
6.1	Unregulated transmission assets		Appendix B STPIS (March 2011)	
6.2	3rd party outages	Any outages shown to be caused by a 'third party system'-eg intertrip signals, generator outage, customer installation, customer request or AEMO	Appendix B STPIS (March 2011)	
6.3	Outages to control voltages	direction. Outages to control voltages within required limits, both as directed by AEMO and where AEMO does not have direct oversight of the network (in both cases only where the element is available for immediate energisation if required).	Appendix B STPIS (March 2011)	
6.4	Circuit opening for operational purposes	The opening of only one end of a transmission line where the transmission line remains energised and available to carry power.	Appendix B STPIS (March 2011)	
6.5	Capped outages	The number of interrupted hours related to a single transmission line redevelopment project or substation redevelopment project is capped at 336 hours (14 days).	Appendix B STPIS (March 2011)	
6.6	Force majeure		Appendix B STPIS (March 2011)	

Service Target Perfomance Incentive Scheme - Definition of Forec	e Majeure

Definition of Force Majeure	Reference
	Service Target Performance Incentive Scheme (March 2011) p. 54
- fire, lightning, explosion, flood, earthquake, storm, cyclone, action of the elements, riots, civil commotion, malicious damage, natural disaster, sabotage, act of a public enemy, act of God, war (declared or undeclared), blockage, revolution, radioactive contamination, toxic or dangerous chemical contamination or force of nature.	
<ul> <li>action or inaction by a court, government agency (including denial, refusal or failure to grant any authorisation, despite timely best endeavour to obtain same)</li> </ul>	
- strikes, lockouts, industrial and/or labour disputes and/or difficulties, work bans, blockades or picketing	
- acts or omissions (other than failure to pay money) of a party other than the TNSP, which party either is connected to or uses the high voltage grid or is directly connected to or uses a system for the supply of electricity that in turn is connected to the high voltage grid	
- where those acts or omissions affect the ability of the TNSP to perform its obligation under the service standard by virtue of that direct or indirect connection to or use of the high voltage grid	
In determining what force majeure events should be excluded the AER will consider the following:	
- was the event unforeseeable and its impact extraordinary, uncontrollable and not manageable?	
- does the event occur frequently? If so, how did the impact of the particular event differ?	
- could the TNSP, in practice, have prevented the impact (not necessarily the event itself)?	
- could the TNSP have effectively reduced the impact of the event by adopting better practices?	