

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.

SP AusNet - SERVICE STANDARDS PERFORMANCE

Performance Inputs								
S	Performance parameter	Collar	Target	Cap	Revenue at Risk	Performance (Without exclusions)	Performance (With exclusions) TNSP Version	Performance (With exclusions) AER Version
S1	Total circuit availability	98.41%	98.73%	99.05%	0.20%	99.16%	99.25%	-1037554.76%
S2	Peak critical availability	98.62%	99.39%	99.78%	0.20%	99.72%	99.79%	-8860.28%
S3	Peak non-critical availability	98.83%	99.40%	99.69%	0.05%	99.87%	99.91%	-2051.80%
S4	Intermediate critical availability	97.29%	98.67%	99.36%	0.025%	99.63%	99.67%	-5357.04%
S5	Intermediate non-critical availability	97.57%	98.73%	99.31%	0.025%	98.80%	98.91%	-4445.89%
S6	Loss of supply event frequency (no. of events > 0.05 system minutes per annum)	9	6	3	0.125%	2	2	2
S7	Loss of supply event frequency (no. of events > 0.3 system minutes per annum)	4	1	0	0.125%	1	1	1
S8	Average outage duration– lines (minutes)	667	382	98	0.125%	207	207	207
S9	Average outage duration– transformers (minutes)	556	412	268	0.125%	147	147	84

Revenue Determination Inputs	
TNSP:	SP AusNet
STPIS version:	January, 2007
Regulatory Determination	2008/09-2013/14
Base Year Allowed Revenue	\$454,974,504
Base Year	2008/09
X-factor	-1.01%
Commencement of regulatory year	1-Apr-08

Other inputs	
Assessment Period	2012
Financial year to affect revenue:	2013/14
Date prepared:	30 January 2013
Revision date:	

Other Inputs								
Annual revenue adjusted for CPI	Dec-07	Dec-08	Dec-09	Dec-10	Dec-11	Dec-12	Dec-13	Dec-14
CPI	160.1	166.0	169.5	174.0	179.4	0.0		

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.

SP AUSNET - Proposed exclusions

CIRCUIT AVAILABILITY	Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Circuits affected	Reactive plant or transformer	Quantitative impact	Reasons for exclusion request	Further references	Comments
Name of any circuit availability parameters applying to SP AusNet	Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted.	A description of the cause of the event	Start date and time of event		End date and time of event		Name of circuits affected	Name of any reactive plant or transformer affected	Impact of exclusion event on availability sub-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.	A TNSP may provide further details of an exclusion event. TNSP to provide reference.	Details of reference attachments if applicable
	PTH Work	Outage requested by APDALCOA	APDALCOA	5/01/12	06:34:00	5/01/12	11:48:00	GTS -PTH 1 220KV WY		5.233	EXCLUDE 1.3 Third party outage	WO # 10359525	WO 10359525 GTS-PTH No1 220kV LINE.pdf
	WMTS No3 220/66kV Trans Tripped		FAULT	5/01/12	11:34:00	5/01/12	11:42:00		B3 220/66KV TRANS AT WMTS	0.133	EXCLUDE 1.2 Connection asset	WO # 10359790	
	WMTS No3 220/22kV Trans Tripped		FAULT	5/01/12	11:34:00	5/01/12	11:42:00		L3 220/22KV TRANS AT WMTS	0.133	EXCLUDE 1.2 Connection asset	WO # 10359791	
	Perf Calc W/O B1 Trans during Isol SW OH		SPIMAIN	9/01/12	08:09:00	13/01/12	11:33:00		B1 220/66KV TRANS AT GTS	99.400	EXCLUDE 1.2 Connection asset	WO # 10359439	
	Modify, check & test, ROI and E/SW interlocks	Z904 - (ERTS) 4TH TRANSFORMER (WAS Z902)	SPICAPX	14/01/12	06:10:00	14/01/12	19:15:00		B3 220/66KV TRANS AT ERTS	13.083	EXCLUDE 1.2 Connection asset	WO # Z90458M8	
	Repair B3 Selector Switch, O/H Div SW & 66kv CB		SPIMAIN	17/01/12	07:05:00	20/01/12	11:21:00		B3 220/66KV TRANS AT ERTS	76.267	EXCLUDE 1.2 Connection asset	WO # 10359256	
	OUT W/O complete unfinished OH of B2 Trans		SPIMAIN	18/01/12	08:17:00	18/01/12	17:15:00		B2 220/66KV TRANS AT TGTS	8.967	EXCLUDE 1.2 Connection asset	WO # 10359483	
	B2 Trans de-energised.		FAULT	18/01/12	23:42:00	19/01/12	16:59:00		B2 220/66KV TRANS AT ATS	17.283	EXCLUDE 1.2 Connection asset	WO # 10360249	
	OUT W/O complete unfinished OH of B2 Trans		SPIMAIN	19/01/12	07:57:00	19/01/12	15:34:00		B2 220/66KV TRANS AT TGTS	7.617	EXCLUDE 1.2 Connection asset	WO # 10359483	
	CBTS-FTS 1 VSCAP for DOC	Outage requested by DISTCO	DBPROX	19/01/12	14:15:00	19/01/12	17:44:00	CBTS-FTS 1 66KV E		3.483	EXCLUDE 1.2 Connection asset	WO # 10359989	
	REPAIR OF 11KV CABLE		SPIMAIN	21/01/12	08:35:00	21/01/12	17:28:00		B2 220/66KV TRANS AT ATS	8.883	EXCLUDE 1.2 Connection asset	WO # 10360442	
	Perf calc W/O B2 Trans during No1 220 Bus outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	22/01/12	06:35:00	22/01/12	16:44:00		B2 220/66KV TRANS AT HOTS	10.150	EXCLUDE 1.2 Connection asset	WO # XA0258A6	
	REPAIR OF 11KV CABLE		SPIMAIN	22/01/12	07:06:00	22/01/12	13:07:00		B2 220/66KV TRANS AT ATS	6.017	EXCLUDE 1.2 Connection asset	WO # 10360442	
	Investigate & repair No.1 Trans oil pump		SPIMAIN	23/01/12	07:03:00	23/01/12	15:40:00		B1 220/66KV TRANS AT SVTS	8.617	EXCLUDE 1.2 Connection asset	WO # 10360141	
	OUT W/O Complete unfinished OH of No4 Transformer		SPIMAIN	23/01/12	07:51:00	23/01/12	15:27:00		R4 220/66/22KV TRANS AT BETS	7.600	EXCLUDE 1.2 Connection asset	WO # 10359526	
	OUT W/O Complete unfinished OH of No4 Transformer		SPIMAIN	24/01/12	06:28:00	24/01/12	14:18:00		R4 220/66/22KV TRANS AT BETS	7.833	EXCLUDE 1.2 Connection asset	WO # 10359526	
	Reactor switching for AEMO	Outage requested by NEMMCO	SW_NEM	25/01/12	06:42:00	25/01/12	06:52:00	EX - MLTS-HYTS 1 500KV W		0.167	EXCLUDE 1.5 Switching to control voltages	WO # 10359566	WO 10359566 MLTS-HYTS No1 500kV LINE.pdf
	PROXIMITY TO CONSTRUCT BI POLE FOOTING	ZA08 - (KTS) B5 TRANSFORMER CONNECTION TO LOAD	DB_AUG	30/01/12	06:04:00	30/01/12	09:08:00		B2 220/66KV TRANS AT KTS	3.067	EXCLUDE 1.2 Connection asset	WO # ZA0858B2	
	Repair B1 Selector Switch, O/H Div SW & 66kv CB		SPIMAIN	30/01/12	07:18:00	31/01/12	23:59:59		B1 220/66KV TRANS AT ERTS	40.700	EXCLUDE 1.2 Connection asset	WO # 10359257	
	CBTS-FTS No1 66kV Line Isol'd & Eth'd for VSCAP	Outage requested by DISTCO	DBPROX	31/01/12	09:12:00	31/01/12	15:30:00	CBTS-FTS 1 66KV E		6.300	EXCLUDE 1.2 Connection asset	WO # 10360734	
	Repair B1 Selector Switch, O/H Div SW & 66kv CB		SPIMAIN	1/02/12	00:00:00	3/02/12	11:48:00		B1 220/66KV TRANS AT ERTS	59.800	EXCLUDE 1.2 Connection asset	WO # 10359257	
	PROXIMITY TO CONSTRUCT BI POLE FOOTING	ZA08 - (KTS) B5 TRANSFORMER CONNECTION TO LOAD	DB_AUG	1/02/12	06:13:00	1/02/12	16:23:00		B2 220/66KV TRANS AT KTS	10.167	EXCLUDE 1.2 Connection asset	WO # ZA0858B2	
	Investigate/repair No3 Transformer OOS		SPIMAIN	1/02/12	07:51:00	1/02/12	13:13:00		R3 220/66/22KV TRANS AT KGTS	5.367	EXCLUDE 1.2 Connection asset	WO # 10360641	
	HYTs-APD No 1 Line	Outage requested by APDALCOA	APDALCOA	1/02/12	09:02:00	1/02/12	10:06:00	HYTS-APD 1 500KV W		1.067	EXCLUDE 1.3 Third party outage	WO # 10360804	WO 10360804 HYTS - APD No1 Line 1 2-2012.TIF
	PROXIMITY TO CONSTRUCT BI POLE FOOTING	ZA08 - (KTS) B5 TRANSFORMER CONNECTION TO LOAD	DB_AUG	2/02/12	06:09:00	2/02/12	15:45:00		B2 220/66KV TRANS AT KTS	9.600	EXCLUDE 1.2 Connection asset	WO # ZA0858B2	
	PROXIMITY TO CONSTRUCT BI POLE FOOTING	ZA08 - (KTS) B5 TRANSFORMER CONNECTION TO LOAD	DB_AUG	3/02/12	06:07:00	3/02/12	16:16:00		B2 220/66KV TRANS AT KTS	10.150	EXCLUDE 1.2 Connection asset	WO # ZA0858B2	
	Modify, check & test, ROI and E/SW interlocks	Z904 - (ERTS) 4TH TRANSFORMER (WAS Z902)	SPICAPX	4/02/12	06:05:00	4/02/12	14:26:00		B2 220/66KV TRANS AT ERTS	8.350	EXCLUDE 1.1 Unregulated transmission asset	WO # Z90458M9	
	PROXIMITY TO CONSTRUCT BI POLE FOOTING	ZA08 - (KTS) B5 TRANSFORMER CONNECTION TO LOAD	DB_AUG	6/02/12	06:06:00	6/02/12	16:37:00		B2 220/66KV TRANS AT KTS	10.517	EXCLUDE 1.2 Connection asset	WO # ZA0858B2	
	top up 220kv		SPIMAIN	7/02/12	07:17:00	7/02/12	15:04:00		B1 220/66KV TRANS AT WMTS	7.783	EXCLUDE 1.2 Connection asset	WO # 10360846	

ACCURACY TESTING AEMO METERING CTS		SPIMAIN	7/02/12	07:27:00	7/02/12	14:10:00		B3 220/66KV TRANS AT GTS	6.717	EXCLUDE 1.2 Connection asset	WO # 10348020	
OVERHAUL OF A TRANSFORMER		SPIMAIN	8/02/12	07:02:00	8/02/12	14:12:00		B1 220/66KV TRANS AT KTS	7.167	EXCLUDE 1.2 Connection asset	WO # 10332694	
WBTS B1 Trans Tripped		FAULT	10/02/12	17:48:00	10/02/12	20:08:00		B1 220/66KV TRANS AT WBTS	2.333	EXCLUDE 1.1 Unregulated transmission asset	WO # 10361198	
Trip of CBTS-FTS No1 66kV Line		FAULT	11/02/12	08:36:00	12/02/12	01:48:00	CBTS-FTS 1 66KV E		17.200	EXCLUDE 1.2 Connection asset	WO # 10361204	
HWPS-MWTS/MPSLine Trip		REM_TRIP	11/02/12	16:12:00	11/02/12	16:49:00	HWPS-MPS-MWTS 220KV G		0.617	EXCLUDE 1.3 Third party outage	WO # 10361213	WO 10361213 INCIDENT-10361206-AEMO.pdf
ERECT BI POLE STRUCTURE	ZA08 - (KTS) B5 TRANSFORMER CONNECTION TO LOAD	DB_AUG	16/02/12	06:07:00	16/02/12	17:11:00		B2 220/66KV TRANS AT KTS	11.067	EXCLUDE 1.2 Connection asset	WO # ZA0858B3	
SIR outage		FAULT	17/02/12	09:17:00	17/02/12	09:28:00		R3 220/66/22KV TRANS AT RCTS	0.183	EXCLUDE 1.1 Unregulated transmission asset	WO # 10361504	
No3 Trans de-energisation for OLTC control checks		SPIMAIN	17/02/12	10:11:00	17/02/12	11:07:00		R3 220/66/22KV TRANS AT RCTS	0.933	EXCLUDE 1.1 Unregulated transmission asset	WO # 10361447	
INSTALL TEMP S/S TRANS BEHIND TRANS BANK	X874 - (BLTS) STATION REBUILD	SPICAPX	18/02/12	06:33:00	18/02/12	14:12:00		EX - B1 220/66KV TRANS BANK AT BLTS	7.650	EXCLUDE 1.2 Connection asset	WO # X87458F5	
replace defective oil pumps		SPIMAIN	18/02/12	07:27:00	18/02/12	18:23:00		L3 220/22KV TRANS AT WMTS	10.933	EXCLUDE 1.2 Connection asset	WO # 10360987	
replace defective oil pumps		SPIMAIN	19/02/12	07:17:00	19/02/12	13:58:00		L1 220/22KV TRANS AT WMTS	6.683	EXCLUDE 1.2 Connection asset	WO # 10360989	
RECTIFY OIL LEAKS AND DEFECT PUMP & FAN	VB25 - (TTS) REPAIR B4 TRANS OIL LEAKS	SPIMAIN	20/02/12	06:33:00	24/02/12	15:57:00		B4 220/66KV TRANS AT TTS	105.400	EXCLUDE 1.2 Connection asset	WO # VB2558A0	
CONSTRUCT BI POLE FOOTINGS	ZA08 - (KTS) B5 TRANSFORMER CONNECTION TO LOAD	DB_AUG	21/02/12	06:43:00	21/02/12	16:13:00		B2 220/66KV TRANS AT KTS	9.500	EXCLUDE 1.2 Connection asset	WO # ZA0858B4	
CONSTRUCT BI POLE FOOTINGS	ZA08 - (KTS) B5 TRANSFORMER CONNECTION TO LOAD	DB_AUG	22/02/12	06:45:00	22/02/12	16:42:00		B2 220/66KV TRANS AT KTS	9.950	EXCLUDE 1.2 Connection asset	WO # ZA0858B4	
Repair oil leaks	Z727 - (GTS) B2 220/66KV TRANSFORMER	SPICAPX	22/02/12	06:54:00	22/02/12	14:02:00		B2 220/66KV TRANS AT GTS	7.133	EXCLUDE 1.1 Unregulated transmission asset	WO # Z72758F6	
B5 Trans forced off		FORCED	22/02/12	09:42:00	22/02/12	12:05:00		B5 220/66KV TRANS AT KTS	2.383	EXCLUDE 1.1 Unregulated transmission asset	WO # 10361892	
REPLACE BROWN NGK INSULATORS ON POLES		SPIMAIN	24/02/12	05:33:00	24/02/12	10:23:00	CBTS-FTS 1 66KV E		4.833	EXCLUDE 1.2 Connection asset	WO # 10361566	
PRIMARY INJECTION TEST ON B1 66KV CTS	Z714 - DYNAMIC SYSTEM MONITOR - REPLACE WITH HIGHSPEED SYSTEM	DB_AUG	24/02/12	06:32:00	24/02/12	14:31:33		B1 220/66KV TRANS AT FBTS	7.993	EXCLUDE 1.2 Connection asset	WO # Z71458A5	
Perf calc W/O B2 Trans during No1 220 Bus outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	25/02/12	06:50:00	25/02/12	16:57:00		B2 220/66KV TRANS AT HOTS	10.117	EXCLUDE 1.2 Connection asset	WO # XA0258B6	
Perf calc W/O B2 Trans during No1 220 Bus outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	26/02/12	06:22:00	26/02/12	16:28:00		B2 220/66KV TRANS AT HOTS	10.100	EXCLUDE 1.2 Connection asset	WO # XA0258B6	
B1 Transformer		FORCED	27/02/12	17:31:00	27/02/12	19:02:00		B1 220/66KV TRANS AT WBTS	1.517	EXCLUDE 1.1 Unregulated transmission asset	WO # 10361740	
Install & Terminate No.5 S/S Trans 11Kv cables	ZA08 - (KTS) B5 TRANSFORMER CONNECTION TO LOAD	DB_AUG	2/03/12	06:01:00	2/03/12	18:26:00		B5 220/66KV TRANS AT KTS	12.417	EXCLUDE 1.1 Unregulated transmission asset	WO # ZA0858B6	
PAINT DAMAGED REACTOR & TRIAL FIT TAG HUT FAN	UB08 - (SMTS) 330KV SERIES CAPACITOR BANKS - MINOR REPAIRS	SPIMAIN	3/03/12	06:35:00	3/03/12	16:20:00		DDTS NO.1 330KV LINE SERIES CAPACITOR BANK AT SMTS	9.750	EXCLUDE 1.1 Unregulated transmission asset	WO # UB0858A0	
Perf Calc WO No3 Trans MV during bus outage		SPIMAIN	3/03/12	06:41:00	3/03/12	16:32:00		R3 220/66/22KV TRANS AT RCTS	9.850	EXCLUDE 1.1 Unregulated transmission asset	WO # 10357946	
Perf Calc WO No2B Trans during bus outage		SPIMAIN	3/03/12	06:41:00	3/03/12	16:32:00		R2B 220/66/22KV TRANS AT RCTS	9.850	EXCLUDE 1.2 Connection asset	WO # 10357947	
perf calc B3 Trans during No2 220kv Bus Outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	4/03/12	06:04:00	4/03/12	16:48:00		B3 220/66KV TRANS AT HOTS	10.733	EXCLUDE 1.2 Connection asset	WO # XA0258C1	
Perf Calc WO No1B Trans during bus outage		SPIMAIN	4/03/12	06:42:00	4/03/12	15:02:00		R1B 220/66/22KV TRANS AT RCTS	8.333	EXCLUDE 1.2 Connection asset	WO # 10357950	
Cut & Remove B2 Trans 11kv cable	ZA08 - (KTS) B5 TRANSFORMER CONNECTION TO LOAD	DB_AUG	6/03/12	06:02:00	6/03/12	16:13:00		B2 220/66KV TRANS AT KTS	10.183	EXCLUDE 1.2 Connection asset	WO # ZA0858B7	
Perf Calc W/O No2 Trans during No2 330 bus outage	Outage requested by TRANSGRD	TRANSGRD	8/03/12	07:00:00	8/03/12	18:38:00		NO.2 330/66/22KV TRANS AT WOTS	11.633	EXCLUDE 1.2 Connection asset	WO # 10361313	
Perf Calc W/O No1 Trans during OH of its 330kv ESW		SPIMAIN	9/03/12	07:28:00	9/03/12	13:39:00		NO.1 330/66/22KV TRANS AT WOTS	6.183	EXCLUDE 1.2 Connection asset	WO # 10361319	
HYTS-APD 2 outage for APD	Outage requested by APDALCOA	APDALCOA	13/03/12	06:29:00	15/03/12	18:26:00	HYTS-APD 2 500KV W		59.950	EXCLUDE 1.3 Third party outage	WO # 10361764	WO 10361764 HYTS-APD No2 500kV LINE 13 MARCH.pdf
Reactor switching	Outage requested by NEMMCO	SW_NEM	13/03/12	07:16:00	13/03/12	07:19:00		TRTS NO.1 500KV LINE SHUNT REACTOR AT MLTS	0.050	EXCLUDE 1.5 Switching to control voltages	WO # 10362283	WO 10362283 HYTS No1 LINE SHUNT REACTOR 13 MARCH.pdf
Reactor switching	Outage requested by NEMMCO	SW_NEM	13/03/12	07:16:00	13/03/12	07:19:00	EX - MLTS-HYTS 1 500KV W		0.050	EXCLUDE 1.5 Switching to control voltages	WO # 10363808	WO 10359566 MLTS-HYTS No1 500kV LINE.pdf

Reactor switching	Outage requested by NEMMCO	SW_NEM	13/03/12	07:16:00	13/03/12	07:19:00		M1 500/275KV TRANS AT HYTS	0.050	EXCLUDE 1.5 Switching to control voltages	WO # 10363809	WO 10359566 MLTS-HYTS No1 500kV LINE.pdf
Rebate child	Outage requested by GENCO	GENCO	14/03/12	03:31:00	14/03/12	19:30:00		HWPS NO.3 220KV LINE AT JLTS	15.983	EXCLUDE 1.3 Third party outage	WO # 10362313	WO 10362313 HWPS Aux C March 12.pdf
Instal new B1 Trans 220kv Esw Foundations	XA18 - (TGTS) RETROFITTING OF EARTH SWITCH	SPICAPX	14/03/12	06:03:00	14/03/12	16:35:00		B1 220/66KV TRANS AT TGTS	10.533	EXCLUDE 1.2 Connection asset	WO # XA1858A1	
top-up 220kV bushing		SPIMAIN	14/03/12	06:37:00	14/03/12	11:02:00		B1 220/66KV TRANS AT KTS	4.417	EXCLUDE 1.2 Connection asset	WO # 10362127	
Instal new B1 Trans 220kv Esw Foundations	XA18 - (TGTS) RETROFITTING OF EARTH SWITCH	SPICAPX	15/03/12	05:59:00	15/03/12	14:46:00		B1 220/66KV TRANS AT TGTS	8.783	EXCLUDE 1.2 Connection asset	WO # XA1858A1	
Top-up 220kV Bushings		SPIMAIN	15/03/12	06:36:00	15/03/12	15:10:00		B1 220/66KV TRANS AT WMTS	8.567	EXCLUDE 1.2 Connection asset	WO # 10362135	
Instal new B1 Trans 220kv Esw Foundations	XA18 - (TGTS) RETROFITTING OF EARTH SWITCH	SPICAPX	16/03/12	06:00:00	16/03/12	16:12:00		B1 220/66KV TRANS AT TGTS	10.200	EXCLUDE 1.2 Connection asset	WO # XA1858A1	
Perf calc W/O for No1 TR during 66kV bus de-energ	VA12 - REFURBISH FIVE ABB EDF SKS1-1 CBS	SPIMAIN	16/03/12	11:45:00	16/03/12	12:02:00		B1 220/66KV TRANS AT GTS	0.283	EXCLUDE 1.2 Connection asset	WO # VA1258B2	
OUTAGE REBATE NO.2 CAPBANK	VB90 - REPLACE ABB 220KV DBRP ISOL BLADE ROTATION COLLARS	SPIMAIN	18/03/12	06:34:00	18/03/12	16:05:00		NO.2 220KV CAPACITOR BANK AT ATS	9.517	EXCLUDE 1.1 Unregulated transmission asset	WO # VB9058B2	
Perf calc B3 trans during No2 66 Bus outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	18/03/12	07:28:00	18/03/12	16:08:00		B3 220/66KV TRANS AT HOTS	8.667	EXCLUDE 1.2 Connection asset	WO # XA0258C5	
Instal and connect new B2 Trans 220kv Earth Sw	XA18 - (TGTS) RETROFITTING OF EARTH SWITCH	SPICAPX	19/03/12	06:03:00	19/03/12	18:09:00		B2 220/66KV TRANS AT TGTS	12.100	EXCLUDE 1.2 Connection asset	WO # XA1858A2	
Replace 2 Oil Pumps on cooling system	V8F1 - REPAIR OF OIL LEAKS IN TERMINAL STNS - STAGE 1	SPICAPX	19/03/12	07:08:00	21/03/12	16:34:00		B4 220/66KV TRANS AT SVTS	57.433	EXCLUDE 1.2 Connection asset	WO # V8F158C9	
HYTS-APD 2 outage for APD	Outage requested by APDALCOA	APDALCOA	19/03/12	07:12:00	30/03/12	14:52:00		HYTS-APD 2 500KV W	271.667	EXCLUDE 1.3 Third party outage	WO # 10361765	WO 10361765 HYTS-APD No2 500kV LINE 19 MARCH.pdf
WKPS 220kV Line Isol'd & Eth'd for SHCC	Outage requested by STHYDRO	GENCO	19/03/12	08:37:00	31/03/12	09:52:00		WKPS 220KV LINE AT MBTS	289.250	EXCLUDE 1.3 Third party outage	WO # 10362400	WO 10362400 WKPS-MBTS 220kV LINE 19 MARCH.pdf
Instal and connect new B2 Trans 220kv Earth Sw	XA18 - (TGTS) RETROFITTING OF EARTH SWITCH	SPICAPX	20/03/12	05:58:00	20/03/12	18:20:00		B2 220/66KV TRANS AT TGTS	12.367	EXCLUDE 1.2 Connection asset	WO # XA1858A2	
Perf calc W/O 1A Trans during #1 22kV bus outage		SPIMAIN	20/03/12	07:46:00	20/03/12	16:57:00		R1A 220/66/22KV TRANS AT RCTS	9.183	EXCLUDE 1.2 Connection asset	WO # 10347997	
Perf calc W/O 1A Trans during #1 22kV bus outage		SPIMAIN	21/03/12	06:36:00	21/03/12	14:25:00		R1A 220/66/22KV TRANS AT RCTS	7.817	EXCLUDE 1.2 Connection asset	WO # 10347997	
Perf Calc W/O No2 Trans MV during 66kV CB outage		SPIMAIN	21/03/12	11:19:00	21/03/12	16:43:00		NO.2 330/66/22KV TRANS AT WOTS	5.400	EXCLUDE 1.2 Connection asset	WO # 10361124	
TBTS B2 Trans 220kV CB SF6 top up		FORCED	21/03/12	16:09:00	21/03/12	16:45:00		B2 220/66KV TRANS AT TBTS	0.600	EXCLUDE 1.2 Connection asset	WO # 10362491	
Instal and connect new B2 Trans 220kv Earth Sw	XA18 - (TGTS) RETROFITTING OF EARTH SWITCH	SPICAPX	22/03/12	05:55:00	22/03/12	14:25:00		B2 220/66KV TRANS AT TGTS	8.500	EXCLUDE 1.2 Connection asset	WO # XA1858A2	
Repair oil leak on B1 Trans & faulty oil pump		SPIMAIN	22/03/12	07:15:00	22/03/12	17:04:00		B1 220/66KV TRANS AT SVTS	9.817	EXCLUDE 1.2 Connection asset	WO # 10362480	
Perf calc W/O No2A Trans during #2 22kV bus outage		SPIMAIN	22/03/12	07:30:00	22/03/12	16:36:00		R2A 220/66/22KV TRANS AT RCTS	9.100	EXCLUDE 1.2 Connection asset	WO # 10347993	
Perf calc WO No3 Tr 22kV during #2 22kV bus outage		SPIMAIN	22/03/12	07:30:00	22/03/12	16:36:00		R3 220/66/22KV TRANS AT RCTS	9.100	EXCLUDE 1.1 Unregulated transmission asset	WO # 10347995	
VSCAP to DOC	Outage requested by DISTCO	DBPROX	22/03/12	07:50:00	22/03/12	14:59:00		NO.1 330/66/22KV TRANS AT WOTS	7.150	EXCLUDE 1.2 Connection asset	WO # 10362019	
Transgrid Outage	Outage requested by TRANSGRD	TRANSGRD	22/03/12	08:01:00	22/03/12	18:45:00		BSS 220KV LINE AT RCTS	10.733	EXCLUDE 1.3 Third party outage	WO # 10362345	WO 10362345 BSS-RCTS 220kV LINE 22 MARCH.pdf
VSCAP to DOC	Outage requested by DISTCO	DBPROX	23/03/12	07:48:00	23/03/12	13:07:00		NO.2 330/66/22KV TRANS AT WOTS	5.317	EXCLUDE 1.2 Connection asset	WO # 10362020	
Instal and connect new B1 Trans 220kv Earth Sw	XA18 - (TGTS) RETROFITTING OF EARTH SWITCH	SPICAPX	26/03/12	06:02:00	26/03/12	17:57:00		B1 220/66KV TRANS AT TGTS	11.917	EXCLUDE 1.2 Connection asset	WO # XA1858A3	
Install tilt panels for Future B2 Trans bund	ZA08 - (KTS) B5 TRANSFORMER CONNECTION TO LOAD	SPICAPX	26/03/12	06:42:00	26/03/12	16:01:00		B5 220/66KV TRANS AT KTS	9.317	EXCLUDE 1.1 Unregulated transmission asset	WO # XA1558A6	
Instal and connect new B1 Trans 220kv Earth Sw	XA18 - (TGTS) RETROFITTING OF EARTH SWITCH	SPICAPX	27/03/12	05:54:00	27/03/12	18:19:00		B1 220/66KV TRANS AT TGTS	12.417	EXCLUDE 1.2 Connection asset	WO # XA1858A3	
Install conduits & cables for switchyard lighting	X785 - (TTS) STATION REBUILD	SPICAPX	27/03/12	05:59:00	27/03/12	17:18:00		B4 220/66KV TRANS AT TTS	11.317	EXCLUDE 1.2 Connection asset	WO # X78558SP	
Install tilt panels for Future B2 Trans bund	ZA08 - (KTS) B5 TRANSFORMER CONNECTION TO LOAD	SPICAPX	27/03/12	06:48:00	27/03/12	16:18:00		B5 220/66KV TRANS AT KTS	9.500	EXCLUDE 1.1 Unregulated transmission asset	WO # XA1558A6	
EPS SRAS Test	Outage requested by GENCO	GENCO	27/03/12	12:37:00	27/03/12	16:47:00		MBTS-EPS 1 220KV N	4.167	EXCLUDE 1.3 Third party outage	WO # 10362585	WO 10362585 MBTS-EPS No1 220kV LINE 27 MARCH.pdf

Install conduits & cables for switchyard lighting	X785 - (TTS) STATION REBUILD	SPICAPX	28/03/12	04:45:00	28/03/12	15:40:00		B3 220/66KV TRANS AT TTS	10.917	EXCLUDE 1.2 Connection asset	WO # X78558SQ	
Install tilt panels for Future B2 Trans bund	ZA08 - (KTS) B5 TRANSFORMER CONNECTION TO LOAD	SPICAPX	28/03/12	05:42:00	28/03/12	14:34:00		B5 220/66KV TRANS AT KTS	8.867	EXCLUDE 1.1 Unregulated transmission asset	WO # XA1558A6	
Instal and connect new B1 Trans 220kv Earth Sw	XA18 - (TGTS) RETROFITTING OF EARTH SWITCH	SPICAPX	28/03/12	05:50:00	28/03/12	17:03:00		B1 220/66KV TRANS AT TGTS	11.217	EXCLUDE 1.2 Connection asset	WO # XA1858A3	
Instal and connect new B1 Trans 220kv Earth Sw	XA18 - (TGTS) RETROFITTING OF EARTH SWITCH	SPICAPX	29/03/12	05:40:00	29/03/12	15:51:00		B1 220/66KV TRANS AT TGTS	10.183	EXCLUDE 1.2 Connection asset	WO # XA1858A3	
Install conduits & cables for switchyard lighting	X785 - (TTS) STATION REBUILD	SPICAPX	29/03/12	05:44:00	29/03/12	15:05:00		B2 220/66KV TRANS AT TTS	9.350	EXCLUDE 1.2 Connection asset	WO # X78558SR	
Install conduits & cables for switchyard lighting	X785 - (TTS) STATION REBUILD	SPICAPX	30/03/12	06:01:00	30/03/12	13:08:00		B1 220/66KV TRANS AT TTS	7.117	EXCLUDE 1.2 Connection asset	WO # X78558SS	
De-energised for Transgrid	Outage requested by TRANSGRD	TRANSGRD	31/03/12	06:17:00	31/03/12	15:57:00	MSS-DDTS 1 330KV NW		9.667	EXCLUDE 1.3 Third party outage	WO # 10361707	WO 10361707 MSS-DDTS No1 330kV LINE 31 MARCH.pdf
INSTALL TEMP S/S TRANS ONTO ITS FRAME	X874 - (BLTS) STATION REBUILD	SPICAPX	31/03/12	06:36:00	31/03/12	15:18:00		EX - B1 220/66KV TRANS BANK AT BLTS	8.700	EXCLUDE 1.2 Connection asset	WO # X87458G9	
Transgrid work	Outage requested by TRANSGRD	TRANSGRD	1/04/12	07:02:00	1/04/12	16:40:00	MSS-DDTS 2 330KV NW		9.633	EXCLUDE 1.3 Third party outage	WO # 10362544	WO 10362544 MSS-DDTTS No2 330kV LINE 1 APRIL.pdf
HYTS-APD 1 outage for APD	Outage requested by APDALCOA	APDALCOA	2/04/12	07:36:00	5/04/12	14:13:00	HYTS-APD 1 500KV W		78.617	EXCLUDE 1.3 Third party outage	WO # 10362391	WO 10362391 HYTS-APD No1 500kV LINE 2-5 APRIL.pdf
Install / modify structural steel at rack structur	X785 - (TTS) STATION REBUILD	SPICAPX	3/04/12	05:47:00	3/04/12	17:40:00		B2 220/66KV TRANS AT TTS	11.883	EXCLUDE 1.2 Connection asset	WO # X78558SK	
Perf calc W/O No2 Trans during No2 330k bus outage		SPIMAIN	3/04/12	07:13:00	3/04/12	18:03:00		NO.2 330/66/22KV TRANS AT WOTS	10.833	EXCLUDE 1.2 Connection asset	WO # 10362316	
B1 & B2 TRANSFORMERS	X785 - (TTS) STATION REBUILD	SPICAPX	4/04/12	05:57:00	4/04/12	16:09:00		B1 220/66KV TRANS AT TTS	10.200	EXCLUDE 1.2 Connection asset	WO # X78558AC	
Perf calc W/O No2 Trans during No2 330k bus outage		SPIMAIN	4/04/12	07:04:00	4/04/12	16:45:00		NO.2 330/66/22KV TRANS AT WOTS	9.683	EXCLUDE 1.2 Connection asset	WO # 10362316	
Perf calc W/O No2 Trans during No2 330k bus outage		SPIMAIN	5/04/12	07:00:00	5/04/12	12:09:00		NO.2 330/66/22KV TRANS AT WOTS	5.150	EXCLUDE 1.2 Connection asset	WO # 10362316	
HYTS-APD 1 outage for APD	Outage requested by APDALCOA	APDALCOA	10/04/12	07:25:00	19/04/12	16:48:00	HYTS-APD 1 500KV W		225.383	EXCLUDE 1.3 Third party outage	WO # 10362392	WO 10362392 HYTS-APD No1 500kV LINE 10-20 APRIL.pdf
B5 trans		SPIMAIN	10/04/12	14:50:00	11/04/12	06:31:00		B5 220/66KV TRANS AT TTS	15.683	EXCLUDE 1.2 Connection asset	WO # 10363326	
PTH Outage	Outage requested by APDALCOA	APDALCOA	11/04/12	06:58:00	11/04/12	14:04:00	GTS-PTH 2 220KV WY		7.100	EXCLUDE 1.3 Third party outage	WO # 10362630	WO 10362630 GTS-PTH No2 220kV LINE 11 APRIL.pdf
Rebate W/O B3 Trans during No2 220kv Bus outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	12/04/12	05:55:00	12/04/12	18:11:00		B3 220/66KV TRANS AT HOTS	12.267	EXCLUDE 1.2 Connection asset	WO # XA0258D2	
Rebate W/O B3 Trans during No2 220kv Bus outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	13/04/12	05:59:00	13/04/12	17:35:00		B3 220/66KV TRANS AT HOTS	11.600	EXCLUDE 1.2 Connection asset	WO # XA0258D2	
Rebate W/O B3 Trans during No2 220kv Bus outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	14/04/12	06:04:00	14/04/12	14:02:00		B3 220/66KV TRANS AT HOTS	7.967	EXCLUDE 1.2 Connection asset	WO # XA0258D2	
Deenergised due to loss of B2 Transformer		FAULT	15/04/12	07:06:00	15/04/12	07:51:00		B3 220/66KV TRANS AT ERTS	0.750	EXCLUDE 1.2 Connection asset	WO # 10363693	
B2 Transformer Fault		FAULT	15/04/12	07:06:00	15/04/12	12:14:00		B2 220/66KV TRANS AT ERTS	5.133	EXCLUDE 1.1 Unregulated transmission asset	WO # 10363694	
Carry out primary injection testing on Transformer	Z904 - (ERTS) 4TH TRANSFORMER (WAS Z902)	SPICAPX	18/04/12	08:07:00	18/04/12	20:38:00		B2 220/66KV TRANS AT ERTS	12.517	EXCLUDE 1.1 Unregulated transmission asset	WO # Z90458P5	
Perf Calc W/O #4 Tr 22kV during #4 22kV bus outage	Outage requested by DISTCO	DBPROX	18/04/12	09:32:00	18/04/12	18:24:00		R4 220/66/22KV TRANS AT BETS	8.867	EXCLUDE 1.2 Connection asset	WO # 10363225	
No1 220kV Bus Trip		FAULT	18/04/12	14:01:00	18/04/12	14:05:00		B4 220/66KV TRANS AT RWTS	0.067	EXCLUDE 1.2 Connection asset	WO # 10363983	
No1 220kV Bus Trip		FAULT	18/04/12	14:01:00	18/04/12	14:05:00		EX - L3 220/22KV TRANS BANK AT RWTS	0.067	EXCLUDE 1.2 Connection asset	WO # 10363985	
INSTALL STRUCTIRAL STEEL AT STRUCTURE LEGS	X785 - (TTS) STATION REBUILD	SPICAPX	20/04/12	06:07:00	20/04/12	07:36:00		B2 220/66KV TRANS AT TTS	1.483	EXCLUDE 1.2 Connection asset	WO # X78558TI	
HYTS-APD 1 outage for APD	Outage requested by APDALCOA	APDALCOA	23/04/12	07:20:00	24/04/12	15:37:00	HYTS-APD 1 500KV W		32.283	EXCLUDE 1.3 Third party outage	WO # 10362394	WO 10362394 HYTS-APD No1 500kV LINE 23-27 APRIL.pdf
Trip of 5 Group Trans at BLTS		FAULT	23/04/12	16:46:00	24/04/12	00:15:00		B5 220/66KV TRANS GROUP AT BLTS	7.483	EXCLUDE 1.2 Connection asset	WO # 10364160	
O/Haul 2A-2B TRANS GROUP AT BETS		SPIMAIN	26/04/12	07:10:00	27/04/12	15:36:00		R2A/2B 220/66/22KV TRANS GROUP AT BETS	32.433	EXCLUDE 1.2 Connection asset	WO # 10354675	
APD Work	Outage requested by APDALCOA	APDALCOA	26/04/12	07:30:00	30/04/12	23:59:59	HYTS-APD 2 500KV W		112.500	EXCLUDE 1.3 Third party outage	WO # 10364122	WO 10364122 HYTS-APD No2 500kV LINE 26- 30APRIL.pdf
Rebate W/O #2 220 Cap bk during #2 220 bus outage		SPIMAIN	27/04/12	07:31:00	27/04/12	13:26:00		NO.2 220KV CAPACITOR BANK AT MLTS	5.917	EXCLUDE 1.1 Unregulated transmission asset	WO # 10363021	

B1 off loaded		FAULT	27/04/12	20:59:00	27/04/12	21:05:00		B1 220/66KV TRANS AT SMTS	0.100	EXCLUDE 1.1 Unregulated transmission asset	WO # 10370033	
Install B2 Transformer enclosure roof	Z904 - (ERTS) 4TH TRANSFORMER (WAS Z902)	SPICAPX	30/04/12	07:50:00	30/04/12	23:59:59		B2 220/66KV TRANS AT ERTS	16.167	EXCLUDE 1.1 Unregulated transmission asset	WO # Z90458P2	
APD Work	Outage requested by APDALCOA	APDALCOA	1/05/12	00:00:00	3/05/12	08:20:00	HYTS-APD 2 500KV W		56.333	EXCLUDE 1.3 Third party outage	WO # 10364122	WO 10364122 HYTS-APD No2 500kV LINE 26- 30APRIL.pdf
Install B2 Transformer enclosure roof	Z904 - (ERTS) 4TH TRANSFORMER (WAS Z902)	SPICAPX	1/05/12	00:00:00	31/05/12	23:59:59		B2 220/66KV TRANS AT ERTS	744.000	EXCLUDE 1.1 Unregulated transmission asset	WO # Z90458P2	
Rebate W/O for No.1 220kV Bus Outage	VB66 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP ISOLS	SPICAPX	1/05/12	06:58:00	1/05/12	15:39:00		NO.1 220KV CAPACITOR BANK AT ROTS	8.683	EXCLUDE 1.1 Unregulated transmission asset	WO # VB6658L2	
Perf calc W/O B1 Trans during No2 220kV Bus outage		SPIMAIN	1/05/12	07:26:00	1/05/12	17:52:00		B1 220/66KV TRANS (HOT SPARE) AT MBTS	10.433	EXCLUDE 1.2 Connection asset	WO # 10360949	
Perf Calc W/O B2 Trans during #1 220kV BUS outage	VB94 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP-ST2	SPIMAIN	1/05/12	07:33:00	1/05/12	16:41:00		B2 220/66KV TRANS AT TGTS	9.133	EXCLUDE 1.2 Connection asset	WO # VB9458L0	
Perf Calc W/O #2 Tr 22kV during #2 22kV bus outage	Outage requested by DISTCO	DBPROX	2/05/12	06:49:00	2/05/12	17:47:00		2A 220/66/22KV TRANS BANK AT BETS	10.967	EXCLUDE 1.2 Connection asset	WO # 10364132	
Perf Calc W/O B2 Trans during #1 220kV BUS outage	VB94 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP-ST2	SPIMAIN	2/05/12	06:55:00	2/05/12	11:22:00		B2 220/66KV TRANS AT TGTS	4.450	EXCLUDE 1.2 Connection asset	WO # VB9458L0	
Perf calc W/O B1 Trans during No2 220kV Bus outage		SPIMAIN	2/05/12	07:05:00	2/05/12	17:59:00		B1 220/66KV TRANS (HOT SPARE) AT MBTS	10.900	EXCLUDE 1.2 Connection asset	WO # 10360949	
Outage for Genco	Outage requested by STHHYDRO	STHHYDRO	2/05/12	17:59:00	11/05/12	17:27:00	DPS-MBTS 220KV NW		215.467	EXCLUDE 1.3 Third party outage	WO # 10370092	WO 10370092 DPS-MBTS 220kV LINE 2-10 MAY.pdf
Perf calc W/O B2 Trans during #1 220kV bus outage		SPIMAIN	3/05/12	07:03:00	3/05/12	18:13:00		B2 220/66KV TRANS AT MBTS	11.167	EXCLUDE 1.2 Connection asset	WO # 10360944	
Perf Calc W/O B1 Trans during #2 220kV BUS outage	VB94 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP-ST2	SPIMAIN	3/05/12	07:12:00	3/05/12	15:31:00		B1 220/66KV TRANS AT TGTS	8.317	EXCLUDE 1.2 Connection asset	WO # VB9458L2	
Perf calc W/O B2 Trans during #1 220kV bus outage		SPIMAIN	4/05/12	07:15:00	4/05/12	14:29:00		B2 220/66KV TRANS AT MBTS	7.233	EXCLUDE 1.2 Connection asset	WO # 10360944	
APD Work	Outage requested by APDALCOA	APDALCOA	4/05/12	08:00:00	7/05/12	16:00:00	HYTS-APD 2 500KV W		80.000	EXCLUDE 1.3 Third party outage	WO # 10370222	WO 10370222 HYTS-APD No2 500kV LINE 4-7 MAY.pdf
Perf calc W/O B2 Trans during No1 220 Bus outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	6/05/12	06:34:00	6/05/12	18:19:00		B2 220/66KV TRANS AT HOTS	11.750	EXCLUDE 1.2 Connection asset	WO # XA0258E3	
Finish standing wall panels for L3 Transformer	X7F0 - (RWTS) REBUILD 220 & 22KV SWITCHYARDS	SPICAPX	7/05/12	05:27:00	8/05/12	19:50:00		U1 66/22KV TRANS AT RWTS	38.383	EXCLUDE 1.2 Connection asset	WO # X7F058C7	
Perf calc W/O B2 Trans during No1 220 Bus outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	7/05/12	06:31:00	7/05/12	13:57:00		B2 220/66KV TRANS AT HOTS	7.433	EXCLUDE 1.2 Connection asset	WO # XA0258E3	
Repair Red Phase Earth Sw & FIT TAG Hut Fan	UB08 - (SMTS) 330KV SERIES CAPACITOR BANKS - MINOR REPAIRS	SPIMAIN	8/05/12	07:03:00	8/05/12	16:41:00		DDTS NO.1 330KV LINE SERIES CAPACITOR BANK AT SMTS	9.633	EXCLUDE 1.1 Unregulated transmission asset	WO # UB0858A1	
INSTALL FUTURE B2 TRANSFORMER RACK LEG	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	9/05/12	06:00:00	9/05/12	17:40:00		B5 220/66KV TRANS AT KTS	11.667	EXCLUDE 1.1 Unregulated transmission asset	WO # XA1558B3	
Perf Calc W/O #3 Tr 22kV only during 22kVCB outage		SPIMAIN	9/05/12	07:26:00	9/05/12	17:38:00		R3 220/66/22KV TRANS AT KGTS	10.200	EXCLUDE 1.2 Connection asset	WO # 10363859	
EXCAVATE AND INSTALL CONDUITS AND CABLES	ZA08 - (KTS) B5 TRANSFORMER CONNECTION TO LOAD	SPICAPX	11/05/12	05:48:00	11/05/12	16:00:00		B4 220/66KV TRANS AT KTS	10.200	EXCLUDE 1.2 Connection asset	WO # ZA0858E6	
RECTIFY OIL LEAKS	VB26 - (WMTS) REPAIR B2 & L1 TRANS OIL LEAKS	SPICAPX	12/05/12	06:13:00	14/05/12	00:57:00		L1 220/22KV TRANS AT WMTS	42.733	EXCLUDE 1.2 Connection asset	WO # VB2658A1	
Line tripping	Outage requested by GENCO	STHHYDRO	14/05/12	13:09:00	14/05/12	16:37:00	DPS 220KV LINE AT MBTS		3.467	EXCLUDE 1.3 Third party outage	WO # 10370711	WO 10370711 INCIDENT-10370710-CUSTOMER.pdf
Perf Calc W/O No1 Tr grp during 220kV CB O/H		SPIMAIN	15/05/12	07:46:00	17/05/12	15:20:00		B1 220/66KV TRANS GROUP AT GNTS	55.567	EXCLUDE 1.2 Connection asset	WO # 10364151	
Perf Calc W/O No1 Tr grp during 66kV CB O/H		SPIMAIN	18/05/12	06:49:00	18/05/12	15:03:00		B1 220/66KV TRANS GROUP AT GNTS	8.233	EXCLUDE 1.2 Connection asset	WO # 10364152	
O/H No.3 Trans Div. Switch @ TSTS		SPIMAIN	18/05/12	06:58:00	18/05/12	15:34:00		B3 220/66KV TRANS AT TSTS	8.600	EXCLUDE 1.2 Connection asset	WO # 10351496	
top 220kV Bushing blue phase		SPIMAIN	18/05/12	11:31:00	18/05/12	14:25:00		B1 220/66KV TRANS AT KTS	2.900	EXCLUDE 1.2 Connection asset	WO # 10370647	
Perf calc w/o No2 tr grp during No1 220 bus outage	VB94 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP-ST2	SPIMAIN	22/05/12	06:54:00	22/05/12	16:18:00		R2A/2B 220/66/22KV TRANS GROUP AT BETS	9.400	EXCLUDE 1.2 Connection asset	WO # VB9458L9	
O/HAUL Transfmr (with Trafo Union Div Sw) (EM)		SPIMAIN	22/05/12	07:11:00	22/05/12	15:20:00		B1 220/66KV TRANS AT TSTS	8.150	EXCLUDE 1.2 Connection asset	WO # 10351528	
Overhaul No 2 Trans & Div Switch @ TSTS		SPIMAIN	23/05/12	06:54:00	23/05/12	15:18:00		B2 220/66KV TRANS AT TSTS	8.400	EXCLUDE 1.2 Connection asset	WO # 10351531	

S1	Total circuit availability	Perf calc w/o No2 tr grp during No1 220 bus outage	VB94 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP-ST2	SPIMAIN	23/05/12	07:00:00	23/05/12	16:25:00		R2A/2B 220/66/22KV TRANS GROUP AT BETS	9.417	EXCLUDE 1.2 Connection asset	WO # VB9458L9		
		Perf calc w/o No4 trans during No2 220 bus outage	VB94 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP-ST2	SPIMAIN	24/05/12	06:41:00	24/05/12	16:03:00		R4 220/66/22KV TRANS AT BETS	9.367	EXCLUDE 1.2 Connection asset	WO # VB9458M1		
		Out W/O B3 Tr to replace its 220 CB TS ROI collars	VB94 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP-ST2	SPIMAIN	24/05/12	06:54:00	24/05/12	14:31:00		B3 220/66KV TRANS AT GTS	7.617	EXCLUDE 1.2 Connection asset	WO # VB9458L6		
		Perf calc W/OB2 Trans during No1 220kv Bus outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	25/05/12	07:12:00	25/05/12	10:19:00		B2 220/66KV TRANS AT HOTS	3.117	EXCLUDE 1.2 Connection asset	WO # 10370491		
		Transgrid Outage	Outage requested by TRANSGRD	TRANSGRD	27/05/12	07:09:00	27/05/12	15:00:00	MSS-DDTS 2 330KV NW			7.850	EXCLUDE 1.3 Third party outage	WO # 10370708	WO 10370708 MSS-DDTS No2 330kV LINE 27 MAY.pdf
		Condition Monitoring Metro Trans 2day East Area(W)		SPIMAIN	28/05/12	07:17:00	29/05/12	16:46:00		B3 220/66KV TRANS AT HTS		33.483	EXCLUDE 1.2 Connection asset	WO # 10352523	
		Perf calc w/o B4 trans during No2 220 bus outage	VB94 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP-ST2	SPIMAIN	28/05/12	07:50:00	28/05/12	17:05:00		B4 220/66KV TRANS AT GTS		9.250	EXCLUDE 1.2 Connection asset	WO # VB9458M3	
		Switching for APD outage	Outage requested by APDALCOA	APDALCOA	28/05/12	08:36:00	28/05/12	14:55:00		M2 500/275KV TRANS AT HYTS		6.317	EXCLUDE 1.3 Third party outage	WO # 10371118	WO 10371118 M2 TRANS AT HYTS 28-30 MAY.pdf
		REPLACE DBRP ROI DRIVE COLLARS	VB90 - REPLACE ABB 220KV DBRP ISOL BLADE ROTATION COLLARS	SPIMAIN	29/05/12	06:00:00	29/05/12	14:48:00		B2 220/66KV TRANS AT KTS		8.800	EXCLUDE 1.2 Connection asset	WO # VB9058G1	
		Perf calc w/o B4 trans during No2 220 bus outage	VB94 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP-ST2	SPIMAIN	29/05/12	07:05:00	29/05/12	14:15:00		B4 220/66KV TRANS AT GTS		7.167	EXCLUDE 1.2 Connection asset	WO # VB9458M3	
		KTS B1 Trans Trip		FAULT	29/05/12	16:20:00	29/05/12	17:46:00		B1 220/66KV TRANS AT KTS		1.433	EXCLUDE 1.2 Connection asset	WO # 10371442	
		Perf calc w/o B1 trans during No1 220 bus outage	VB94 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP-ST2	SPIMAIN	30/05/12	07:02:00	30/05/12	16:52:00		B1 220/66KV TRANS AT GTS		9.833	EXCLUDE 1.2 Connection asset	WO # VB9458M8	
		Perf calc w/o B1 trans during No1 220 bus outage	VB94 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP-ST2	SPIMAIN	31/05/12	07:01:00	31/05/12	16:56:00		B1 220/66KV TRANS AT GTS		9.917	EXCLUDE 1.2 Connection asset	WO # VB9458M8	
		Transgrid work	Outage requested by TRANSGRD	TRANSGRD	31/05/12	08:27:00	31/05/12	13:03:00	JINDERA 330KV LINE AT WOTS			4.600	EXCLUDE 1.3 Third party outage	WO # 10370821	WO 10370821 JDSS-WOTS 330KV LINE 31 MAY.pdf
		investigate trans fault		SPIMAIN	31/05/12	14:21:00	31/05/12	16:48:00		B5A 220/66KV TRANS BANK AT BLTS		2.450	EXCLUDE 1.2 Connection asset	WO # 10371559	
		Install B2 Transformer enclosure roof	Z904 - (ERTS) 4TH TRANSFORMER (WAS Z902)	SPICAPX	1/06/12	00:00:00	27/06/12	13:40:00		B2 220/66KV TRANS AT ERTS		637.667	EXCLUDE 1.1 Unregulated transmission asset	WO # Z90458P2	
		Erect gantry over Future L3 Transformer	X7F0 - (RWTS) REBUILD 220 & 22KV SWITCHYARDS	SPICAPX	1/06/12	06:49:00	1/06/12	16:32:00		U1 66/22KV TRANS AT RWTS		9.717	EXCLUDE 1.2 Connection asset	WO # X7F058C8	
		Condition Monitoring Metro Trans 2day East Area(W)		SPIMAIN	2/06/12	07:50:00	3/06/12	15:04:53		L1 220/22KV TRANS AT RTS		31.248	EXCLUDE 1.2 Connection asset	WO # 10352518	
		remove defective fans for repair		SPIMAIN	5/06/12	06:31:00	5/06/12	16:07:00		B4 220/66KV TRANS AT KTS		9.600	EXCLUDE 1.2 Connection asset	WO # 10370774	
		Condition Monitoring Metro Trans 2day East Area(W)		SPIMAIN	5/06/12	07:03:00	6/06/12	16:33:00		B3 220/66KV TRANS AT SVTS		33.500	EXCLUDE 1.2 Connection asset	WO # 10352527	
		remove defective fans for repair		SPIMAIN	6/06/12	06:33:00	6/06/12	14:23:00		B4 220/66KV TRANS AT KTS		7.833	EXCLUDE 1.2 Connection asset	WO # 10370774	
		Future B2 ABB - 220/66/11kv, 150MVA at Keilor TS		SPIMAIN	7/06/12	08:50:00	14/06/12	07:05:00		B2 220/66KV TRANS AT KTS		166.250	EXCLUDE 1.2 Connection asset	WO # 10370642	
		VSCAP to UED	Outage requested by DISTCO	DBPROX	8/06/12	05:28:00	8/06/12	15:15:00				9.783	EXCLUDE 1.3 Third party outage	WO # 10371829	WO 10371829 HTS no2 SS Trans 8 Jun 12.pdf
		Perf calc W/OB2 Trans during No1 220kv Bus outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	13/06/12	06:20:00	13/06/12	17:40:00		B2 220/66KV TRANS AT HOTS		11.333	EXCLUDE 1.2 Connection asset	WO # 10371081	
		Perf calc W/OB2 Trans during No1 220kv Bus outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	14/06/12	06:12:00	14/06/12	17:30:00		B2 220/66KV TRANS AT HOTS		11.300	EXCLUDE 1.2 Connection asset	WO # 10371081	
		Condition Monitoring Metro Trans 2day East Area(W)		SPIMAIN	16/06/12	06:54:00	17/06/12	15:57:00		L4 220/22KV TRANS AT RTS		33.050	EXCLUDE 1.2 Connection asset	WO # 10352544	
		Electranet Outage	Outage requested by ELECTRAN	ELECTRAN	18/06/12	12:27:00	18/06/12	17:40:00	HYTS-SESS 2 275KV WH			5.217	EXCLUDE 1.3 Third party outage	WO # 10371725	WO 10371725 HYTS-SESS No2 18-6.pdf
		Condition Monitoring Metro Trans 2day East Area		SPIMAIN	19/06/12	06:54:00	20/06/12	15:30:00		B1 220/66KV TRANS AT RTS		32.600	EXCLUDE 1.2 Connection asset	WO # 10352548	
		H1 Trans trip		FORCMAJ	19/06/12	20:53:00	20/06/12	00:03:00		H1 330/220KV TRANS BANK AT SMTS		3.167	EXCLUDE 1.4 Force majeure	WO # 10372387	INCIDENT-10372386-AEMO.pdf and Multiple_contingency_Event_following_Victoria_Earthquake_19_June_2012_v2.pdf[1].pdf
		H2 Trans trip		FORCMAJ	19/06/12	20:53:00	20/06/12	00:34:00		H2 330/220KV TRANS BANK AT SMTS		3.683	EXCLUDE 1.4 Force majeure	WO # 10372388	INCIDENT-10372386-AEMO.pdf and Multiple_contingency_Event_following_Victoria_Earthquake_19_June_2012_v2.pdf[1].pdf
		SMTS-TTS No. 1 Line off load		FORCMAJ	19/06/12	20:53:00	19/06/12	21:34:00	SMTS-TTS 1 220KV WT			0.683	EXCLUDE 1.4 Force majeure	WO # 10372392	INCIDENT-10372386-AEMO.pdf and Multiple_contingency_Event_following_Victoria_Earthquake_19_June_2012_v2.pdf[1].pdf
		SCAP: JLGA3 Isol & E'd	Outage requested by GENCO	GENCO	20/06/12	10:02:00	22/06/12	10:39:00		NO.3 UNIT 230/10.5KV TRANS AT JLGA		48.617	EXCLUDE 1.3 Third party outage	WO # 10372409	Non AER Element

WORKS ON B2 TRANS & ASSOCIATED SW/GEAR	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	22/06/12	09:23:00	25/06/12	06:00:00		B2 220/66KV TRANS AT KTS	68.617	EXCLUDE 1.2 Connection asset	WO # XA1558C3	
REPLACE CABLING FOR B2 TRANS SW/GEAR	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	25/06/12	06:30:00	30/06/12	23:59:59		B2 220/66KV TRANS AT KTS	137.500	EXCLUDE 1.2 Connection asset	WO # XA1558B7	
O/HAUL Transfmr (with Trafo Union Div Sw) (EM)		SPIMAIN	25/06/12	07:07:00	25/06/12	15:48:00		B1 220/66KV TRANS AT TBTS	8.683	EXCLUDE 1.2 Connection asset	WO # 10351628	
Perf calc W/O No3 Trans during 220kV CB maint		SPIMAIN	25/06/12	09:48:00	25/06/12	16:02:00		R3 220/66/22KV TRANS AT KGTS	6.233	EXCLUDE 1.2 Connection asset	WO # 10371714	
O/Haul NO.3 TRANS AT KGTS		SPIMAIN	26/06/12	07:02:00	27/06/12	14:20:00		R3 220/66/22KV TRANS AT KGTS	31.300	EXCLUDE 1.2 Connection asset	WO # 10356171	
O/HAUL Transfmr (with TrafoUnion Div Sw) (EM)		SPIMAIN	26/06/12	07:15:00	26/06/12	14:56:00		B2 220/66KV TRANS AT TBTS	7.683	EXCLUDE 1.2 Connection asset	WO # 10351621	
perf calc B3 Trans during No2 220kv Bus Outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	27/06/12	06:00:00	27/06/12	18:46:00		B3 220/66KV TRANS AT HOTS	12.767	EXCLUDE 1.2 Connection asset	WO # 10371762	
APD SCAP	Outage requested by APDALCOA	APDALCOA	27/06/12	13:04:00	30/06/12	08:16:00	APD NO.1 500KV LINE AT HYTS		67.200	EXCLUDE 1.3 Third party outage	WO # 10372641	WO 10372641 HYTS-APD No1 27-6 TO 1-7.pdf
perf calc B3 Trans during No2 220kv Bus Outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	28/06/12	06:03:00	28/06/12	17:47:00		B3 220/66KV TRANS AT HOTS	11.733	EXCLUDE 1.2 Connection asset	WO # 10371762	
Perf calc W/O No1 Trans during 220kV CB maint		SPIMAIN	28/06/12	09:09:00	28/06/12	14:41:00		R1 220/66/22KV TRANS AT KGTS	5.533	EXCLUDE 1.2 Connection asset	WO # 10371715	
perf calc B3 Trans during No2 220kv Bus Outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	29/06/12	06:05:00	29/06/12	14:35:00		B3 220/66KV TRANS AT HOTS	8.500	EXCLUDE 1.2 Connection asset	WO # 10371762	
O/Haul NO.1 66KV CAPACITOR BANK AT TBTS		SPIMAIN	29/06/12	07:06:00	29/06/12	14:06:00		NO.1 66KV CAPACITOR BANK AT TBTS	7.000	EXCLUDE 1.1 Unregulated transmission asset	WO # 10313736	
HVS W4 Gen isolated for Power Station	Outage requested by GENCO	GENCO	29/06/12	11:00:00	30/06/12	23:59:59		W4A 230/20KV GEN TRANS AT YWPS	37.000	EXCLUDE 1.3 Third party outage	WO # 10372918	Non AER Element
APD SCAP	Outage requested by APDALCOA	APDALCOA	30/06/12	09:03:00	30/06/12	14:39:00	HYTS-APD 2 500KV W		5.600	EXCLUDE 1.3 Third party outage	WO # 10372643	WO 10372643 HYTS-APD No2 30-6.pdf
HVS W4 Gen isolated for Power Station	Outage requested by GENCO	GENCO	1/07/12	00:00:00	28/07/12	10:20:00		W4A 230/20KV GEN TRANS AT YWPS	658.333	EXCLUDE 1.3 Third party outage	WO # 10372918	Non AER Element
REPLACE CABLING FOR B2 TRANS SW/GEAR	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	1/07/12	00:00:00	1/07/12	06:29:00		B2 220/66KV TRANS AT KTS	6.483	EXCLUDE 1.2 Connection asset	WO # XA1558B7	
WORKS ON OOC B2 TR & FUTURE B2 YWPS outage	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	1/07/12	16:22:00	25/07/12	09:20:00		B2 220/66KV TRANS AT KTS	568.967	EXCLUDE 1.2 Connection asset	WO # XA1558C4	
	Outage requested by GENCO	GENCO	1/07/12	22:32:00	7/07/12	01:02:00		AUX C 220/6.6KV TRANS AT YWPS	122.500	EXCLUDE 1.3 Third party outage	WO # 10372905	Non AER Element
OUT W/O No2 Transformer condition monitoring		SPIMAIN	3/07/12	07:30:00	5/07/12	15:07:00		R2 220/66/22KV TRANS AT KGTS	55.617	EXCLUDE 1.2 Connection asset	WO # 10372152	
Perf calc W/O B2 Trans during No1 220 Bus outage	XA02 - (HOTS) REPLACEMENT OF SWITCHBAYS - STAGE 2	SPICAPX	4/07/12	05:58:00	4/07/12	17:42:00		B2 220/66KV TRANS AT HOTS	11.733	EXCLUDE 1.2 Connection asset	WO # 10371796	
Power Station requirement	Outage requested by GENCO	GENCO	6/07/12	14:20:00	11/07/12	07:59:00		W1A 230/20KV GEN TRANS AT YWPS	113.650	EXCLUDE 1.3 Third party outage	WO # 10373198	Non AER Element
topup 220kV bushing blue phase		SPIMAIN	11/07/12	09:01:00	11/07/12	11:31:00		B1 220/66KV TRANS AT KTS	2.500	EXCLUDE 1.2 Connection asset	WO # 10373250	
HV testing of ERTS B1 Trans		SPIMAIN	12/07/12	07:10:00	12/07/12	17:36:00		B1 220/66KV TRANS AT ERTS	10.433	EXCLUDE 1.2 Connection asset	WO # 10373264	
Rebate W/O for No.1 66KV Bus Outage	ZB02 - (FTS) FTN PROT UPGRADE & LWN EXIT UPGRADE	SPICAPX	15/07/12	06:49:00	15/07/12	13:12:00	CBTS NO.2 66KV LINE AT FTS		6.383	EXCLUDE 1.2 Connection asset	WO # ZB0258A3	
OVERHAUL OF A TRANSFORMER		SPIMAIN	17/07/12	06:35:00	17/07/12	16:10:00		B1 220/66KV TRANS AT SMTS	9.583	EXCLUDE 1.1 Unregulated transmission asset	WO # 10356102	
OUT W/O No3 Transformer condition monitoring		SPIMAIN	17/07/12	07:48:00	19/07/12	14:43:00		R3 220/66/22KV TRANS AT KGTS	54.917	EXCLUDE 1.2 Connection asset	WO # 10372722	
WORKS NEAR B4 TRANS	XA55 - CT REPLACEMENTS STAGE 6 - INCLUDING CVT REPLACEMENTS	SPICAPX	18/07/12	06:07:00	18/07/12	16:40:00		B4 220/66KV TRANS AT WMTS	10.550	EXCLUDE 1.2 Connection asset	WO # XA5558C5	
OVERHAUL OF A TRANSFORMER		SPIMAIN	18/07/12	07:25:00	18/07/12	15:27:00		B3 220/66KV TRANS AT SMTS	8.033	EXCLUDE 1.1 Unregulated transmission asset	WO # 10356108	
Perf Calc W/O No1 Trans during #1 66 bus outage	XA55 - CT REPLACEMENTS STAGE 6 - INCLUDING CVT REPLACEMENTS	SPICAPX	19/07/12	06:03:00	19/07/12	14:56:00		B1 220/66KV TRANS GROUP AT GNTS	8.883	EXCLUDE 1.2 Connection asset	WO # XA5558C8	
WORKS NEAR B4 TRANS	XA55 - CT REPLACEMENTS STAGE 6 - INCLUDING CVT REPLACEMENTS	SPICAPX	19/07/12	06:50:00	19/07/12	16:49:00		B4 220/66KV TRANS AT WMTS	9.983	EXCLUDE 1.2 Connection asset	WO # XA5558C5	
Install piles for future B6 Trans bund area	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	21/07/12	07:17:00	21/07/12	16:30:00		B4 220/66KV TRANS AT RTS	9.217	EXCLUDE 1.2 Connection asset	WO # ZB1258A4	
No2 Transformer grp condition monitoring		SPIMAIN	23/07/12	06:48:00	23/07/12	15:52:00		R2 220/66/22KV TRANS GROUP AT RCTS	9.067	EXCLUDE 1.2 Connection asset	WO # 10372961	
Install piles for future B6 Trans bund area	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	24/07/12	06:02:00	24/07/12	18:15:00		B4 220/66KV TRANS AT RTS	12.217	EXCLUDE 1.2 Connection asset	WO # ZB1258A4	

Install piles for future B6 Trans bund area	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	25/07/12	06:00:00	25/07/12	18:35:00		B4 220/66KV TRANS AT RTS	12.583	EXCLUDE 1.2 Connection asset	WO # ZB1258A4	
No4 66kV Bus trip via protection		FORCED	25/07/12	23:25:00	26/07/12	00:37:00		B4 220/66KV TRANS AT KTS	1.200	EXCLUDE 1.2 Connection asset	WO # 10373946	
Install piles for future B6 Trans bund area	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	26/07/12	06:10:00	26/07/12	18:52:00		B4 220/66KV TRANS AT RTS	12.700	EXCLUDE 1.2 Connection asset	WO # ZB1258A4	
Install piles for future B6 Trans bund area	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	27/07/12	06:01:00	27/07/12	18:26:00		B4 220/66KV TRANS AT RTS	12.417	EXCLUDE 1.2 Connection asset	WO # ZB1258A4	
INSTALL FUTURE B4 TRANS CVD's & WIRING	XA55 - CT REPLACEMENTS STAGE 6 - INCLUDING CVT REPLACEMENTS	SPICAPX	27/07/12	06:04:00	27/07/12	19:47:00		B4 220/66KV TRANS AT WMTS	13.717	EXCLUDE 1.2 Connection asset	WO # XA5558D2	
No1 Cap Bank 220kV CB SF6 Blocked		FORCED	30/07/12	09:01:00	30/07/12	12:49:00		NO.1 220KV CAPACITOR BANK AT ROTS	3.800	EXCLUDE 1.1 Unregulated transmission asset	WO # 10374202	
Bus trip		FAULT	31/07/12	17:01:00	31/07/12	17:09:00		B4 220/66KV TRANS AT RWTS	0.133	EXCLUDE 1.2 Connection asset	WO # 10374133	
Condition Monitoring Metro Trans 2day West Area		SPIMAIN	1/08/12	06:57:00	2/08/12	17:44:00		B2 220/66KV TRANS AT TTS	34.783	EXCLUDE 1.2 Connection asset	WO # 10355543	
Install piles for future B6 Trans bund area	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	2/08/12	06:02:00	2/08/12	17:42:00		B4 220/66KV TRANS AT RTS	11.667	EXCLUDE 1.2 Connection asset	WO # ZB1258A5	
Install piles for future B6 Trans bund area	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	3/08/12	06:01:00	3/08/12	18:17:00		B4 220/66KV TRANS AT RTS	12.267	EXCLUDE 1.2 Connection asset	WO # ZB1258A5	
LYPSA No4 Gen Trans Isol'd & Eth'd for SCAP	Outage requested by GENCO	GENCO	3/08/12	23:16:00	8/08/12	22:26:00		NO.4 GEN 500/21KV TRANS AT LYPA	119.167	EXCLUDE 1.3 Third party outage	WO # 10374075	Non AER Element
Install piles for future B6 Trans bund area	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	4/08/12	06:00:00	4/08/12	16:35:00		B4 220/66KV TRANS AT RTS	10.583	EXCLUDE 1.2 Connection asset	WO # ZB1258A5	
HVS: No 1 220/22kV Trans Isol'd both sides at BLTS		SPIMAIN	5/08/12	16:06:00	31/08/12	23:59:59		EX - L1 220/22KV TRANS W/PH AT BLTS	631.900	EXCLUDE 1.2 Connection asset	WO # 10374223	
B2 Trans	Z904 - (ERTS) 4TH TRANSFORMER (WAS Z902)	SPIMAIN	12/08/12	09:10:00	12/08/12	16:07:00		B2 220/66KV TRANS AT ERTS	6.950	EXCLUDE 1.1 Unregulated transmission asset	WO # 10374428	
B5 Trans de-energised		FORCED	13/08/12	17:06:00	14/08/12	16:36:00		B5 220/66KV TRANS AT KTS	23.500	EXCLUDE 1.1 Unregulated transmission asset	WO # 10374499	
Overhaul Transformer at YPS		SPIMAIN	14/08/12	07:43:00	16/08/12	17:28:31		AUX D 220/22KV TRANS AT YPS	57.759	EXCLUDE 1.2 Connection asset	WO # 10353357	
1A Transformer condition monitoring		SPIMAIN	20/08/12	06:44:00	23/08/12	14:56:00		R1 220/66/22KV TRANS GROUP AT RCTS	80.200	EXCLUDE 1.2 Connection asset	WO # 10373754	
perf calc w/o B2 trans during No2 66kV bus outage		SPIMAIN	21/08/12	07:02:00	21/08/12	15:42:00		B2 220/66KV TRANS AT TGTS	8.667	EXCLUDE 1.2 Connection asset	WO # 10374122	
VSCAP to DOC	Outage requested by DISTCO	DBPROX	21/08/12	08:29:00	21/08/12	15:59:00	MWTS-LY 1 66KV G		7.500	EXCLUDE 1.3 Third party outage	WO # 10374662	WO 10374662 MWTS-LY No1 21-8.pdf
perf calc w/o B1 Trans during No1 66kV bus outage		SPIMAIN	22/08/12	06:40:00	22/08/12	15:28:00		B1 220/66KV TRANS AT TGTS	8.800	EXCLUDE 1.2 Connection asset	WO # 10374125	
Test B4 Transformer Tap Changer	VB81 - (SVTS) REPLACE B4 TRANS OIL PUMPS & PUMP COWLS	SPICAPX	22/08/12	07:43:00	22/08/12	11:45:00		B4 220/66KV TRANS AT SVTS	4.033	EXCLUDE 1.2 Connection asset	WO # VB8158A2	
Rectify Delta Fault On B5 Trans 11KV VT's	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	23/08/12	06:06:00	23/08/12	16:25:00		B5 220/66KV TRANS AT KTS	10.317	EXCLUDE 1.1 Unregulated transmission asset	WO # XA1558E1	
perf calc w/o B1 trans during oh of its 66kV cb		SPIMAIN	23/08/12	08:36:00	23/08/12	14:25:00		B1 220/66KV TRANS AT TGTS	5.817	EXCLUDE 1.2 Connection asset	WO # 10374129	
SOR: KTS:B1 Transformer Unavail(fault E/Sw)		FORCED	26/08/12	14:45:00	27/08/12	07:12:00		B1 220/66KV TRANS AT KTS	16.450	EXCLUDE 1.2 Connection asset	WO # 10374905	
Overhaul Transformer at YPS		SPIMAIN	28/08/12	07:02:00	30/08/12	15:12:00		AUX E 220/22KV TRANS AT YPS	56.167	EXCLUDE 1.2 Connection asset	WO # 10353359	
Condition Monitoring Metro Trans 2day West Area		SPIMAIN	29/08/12	06:58:00	29/08/12	18:44:00		B1 220/66KV TRANS AT WMTS	11.767	EXCLUDE 1.2 Connection asset	WO # 10355525	
Condition Monitoring Metro Trans 2day West Area		SPIMAIN	30/08/12	07:01:00	30/08/12	14:45:00		B2 220/66KV TRANS AT WMTS	7.733	EXCLUDE 1.2 Connection asset	WO # 10364209	
B2 & B3 Outage Ground Wire Works	X785 - (TTS) STATION REBUILD	SPICAPX	31/08/12	06:02:00	31/08/12	15:02:00		B2 220/66KV TRANS AT TTS	9.000	EXCLUDE 1.2 Connection asset	WO # X78558WE	
HVS: No 1 220/22kV Trans Isol'd both sides at BLTS		SPIMAIN	1/09/12	00:00:00	3/09/12	15:12:13		EX - L1 220/22KV TRANS W/PH AT BLTS	63.204	EXCLUDE 1.2 Connection asset	WO # 10374223	
WORKS TO DECLARE B1 TRANS OOC	X874 - (BLTS) STATION REBUILD	SPICAPX	1/09/12	06:36:00	1/09/12	15:34:00		EX - B1 220/66KV TRANS BANK AT BLTS	8.967	EXCLUDE 1.2 Connection asset	WO # X87458N1	
Condition Monitoring Metro Trans 2day West Area		SPIMAIN	1/09/12	06:47:00	2/09/12	15:28:00		L1 220/22KV TRANS AT WMTS	32.683	EXCLUDE 1.2 Connection asset	WO # 10355509	
WORKS TO DECLARE B2 TRANS OOC	X874 - (BLTS) STATION REBUILD	SPICAPX	2/09/12	06:32:00	2/09/12	12:31:00		B2 220/66KV TRANS BANK AT BLTS	5.983	EXCLUDE 1.2 Connection asset	WO # X87458N2	
Works To Declare No.1 220/22KV Tr Bk OOC	X874 - (BLTS) STATION REBUILD	SPICAPX	3/09/12	05:58:00	3/09/12	15:24:12		EX - L1 220/22KV TRANS BANK AT BLTS	9.437	EXCLUDE 1.2 Connection asset	WO # X87458N3	
OVERHAUL A2 TRANSFORMER		SPIMAIN	4/09/12	06:45:00	6/09/12	14:04:00		A2 515/220KV TRANS BANK AT ROTS	55.317	EXCLUDE 1.1 Unregulated transmission asset	WO # 10314199	
OVERHAUL OF A TRANSFORMER		SPIMAIN	4/09/12	07:00:00	5/09/12	15:36:00		B3 220/66KV TRANS AT GTS	32.600	EXCLUDE 1.2 Connection asset	WO # 10355061	

Condition Monitoring Metro Trans 2day West Area		SPIMAIN	4/09/12	07:25:00	4/09/12	09:54:00		B4 220/66KV TRANS AT WMTS	2.483	EXCLUDE 1.2 Connection asset	WO # 10364207
perf calc w/o No2 Trans during its 22kV CB outage		SPIMAIN	4/09/12	09:08:00	4/09/12	14:13:00		R2 220/66/22KV TRANS AT KGTS	5.083	EXCLUDE 1.2 Connection asset	WO # 10374504
Condition Monitoring Metro Trans 2day West Area		SPIMAIN	6/09/12	07:02:00	7/09/12	14:42:00		B1 220/66KV TRANS AT FBTS	31.667	EXCLUDE 1.2 Connection asset	WO # 10355504
OVERHAUL OF A TRANSFORMER		SPIMAIN	6/09/12	07:07:00	7/09/12	10:32:00		B1 220/66KV TRANS AT GTS	27.417	EXCLUDE 1.2 Connection asset	WO # 10355053
Perf calc w/o B4 Trans during No2 220kV bus outage		SPIMAIN	7/09/12	11:12:00	7/09/12	14:54:00		B4 220/66KV TRANS AT GTS	3.700	EXCLUDE 1.2 Connection asset	WO # 10375529
Condition Monitoring Metro Trans 2day West Area		SPIMAIN	8/09/12	07:16:00	9/09/12	15:34:00		L3 220/22KV TRANS AT WMTS	32.300	EXCLUDE 1.2 Connection asset	WO # 10355514
Condition Monitoring Metro Trans 2day East Area(W)		SPIMAIN	15/09/12	07:01:00	16/09/12	16:20:00		L4 220/22KV TRANS AT RTS	33.317	EXCLUDE 1.2 Connection asset	WO # 10374675
O/HAUL Transformer (with Reinhausen Div Sw) (N)		SPIMAIN	17/09/12	06:42:00	21/09/12	12:40:00		A2 500/220KV TRANS BANK AT MLTS	101.967	EXCLUDE 1.1 Unregulated transmission asset	WO # 10336906
Work On B2 Trans & B2 Trans No2 Bus 66KV CB	ZA20 - (ATS) INSTALL 66KV SERIES REACTOR	SPICAPX	17/09/12	07:12:00	17/09/12	13:25:00		B2 220/66KV TRANS AT ATS	6.217	EXCLUDE 1.2 Connection asset	WO # ZA2058B4
Works For B2 Trans Reactor	ZA20 - (ATS) INSTALL 66KV SERIES REACTOR	SPICAPX	17/09/12	13:26:00	17/09/12	14:48:00		B2 220/66KV TRANS AT ATS	1.367	EXCLUDE 1.2 Connection asset	WO # ZA2058A8
L2 Trans forced outage		FORCED	20/09/12	15:03:00	20/09/12	15:19:00		L2 220/22KV TRANS BANK AT BLTS	0.267	EXCLUDE 1.2 Connection asset	WO # 10376173
PRE-COMMISSION B2 TRANS No1 BUS 66KV CB	ZA20 - (ATS) INSTALL 66KV SERIES REACTOR	SPICAPX	21/09/12	14:51:00	30/09/12	23:59:59		B2 220/66KV TRANS AT ATS	225.150	EXCLUDE 1.2 Connection asset	WO # ZA2058B8
O/HAUL Transformer and Div Sw (EM)		SPIMAIN	25/09/12	06:00:00	25/09/12	16:59:00		A1 500/220KV TRANS BANK AT CBTS	10.983	EXCLUDE 1.1 Unregulated transmission asset	WO # 10294142
Install mono poles in Parks Victoria depot	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	25/09/12	06:08:00	25/09/12	16:47:00		B1 220/66KV TRANS AT RTS	10.650	EXCLUDE 1.2 Connection asset	WO # ZB1258B8
Replace repaired cooling fans		SPIMAIN	25/09/12	07:02:00	25/09/12	15:17:00		B4 220/66KV TRANS AT KTS	8.250	EXCLUDE 1.2 Connection asset	WO # 10375831
O/HAUL Transformer and Div Sw (EM)		SPIMAIN	26/09/12	05:33:00	26/09/12	16:29:00		A1 500/220KV TRANS BANK AT CBTS	10.933	EXCLUDE 1.1 Unregulated transmission asset	WO # 10294142
Install mono poles in Parks Victoria depot	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	26/09/12	05:52:00	26/09/12	16:19:00		B1 220/66KV TRANS AT RTS	10.450	EXCLUDE 1.2 Connection asset	WO # ZB1258B8
Replace repaired cooling fans		SPIMAIN	26/09/12	06:16:00	26/09/12	16:07:00		B4 220/66KV TRANS AT KTS	9.850	EXCLUDE 1.2 Connection asset	WO # 10375831
Perf calc w/o B4 Trans during No2 220kV Bus outage		SPIMAIN	26/09/12	07:11:00	26/09/12	16:48:00		B4 220/66KV TRANS AT GTS	9.617	EXCLUDE 1.2 Connection asset	WO # 10376041
O/HAUL Transformer and Div Sw (EM)		SPIMAIN	27/09/12	05:31:00	27/09/12	16:51:00		A1 500/220KV TRANS BANK AT CBTS	11.333	EXCLUDE 1.1 Unregulated transmission asset	WO # 10294142
Install mono poles in Parks Victoria depot	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	27/09/12	05:59:00	27/09/12	15:16:00		B1 220/66KV TRANS AT RTS	9.283	EXCLUDE 1.2 Connection asset	WO # ZB1258B8
Perf calc w/o B1 Trans during its 220kV CB outage		SPIMAIN	27/09/12	07:21:00	28/09/12	14:57:00		B1 220/66KV TRANS AT GTS	31.600	EXCLUDE 1.2 Connection asset	WO # 10375321
OVERHAUL A2 TRANSFORMER		SPIMAIN	28/09/12	05:45:00	28/09/12	08:20:00		A2 515/220KV TRANS BANK AT ROTS	2.583	EXCLUDE 1.1 Unregulated transmission asset	WO # 10314199
Install mono poles in Parks Victoria depot	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	28/09/12	05:59:00	28/09/12	14:07:00		B1 220/66KV TRANS AT RTS	8.133	EXCLUDE 1.2 Connection asset	WO # ZB1258B8
remove defective radiator fans		SPIMAIN	28/09/12	06:36:00	28/09/12	13:43:00		B1 220/66KV TRANS AT FBTS	7.117	EXCLUDE 1.2 Connection asset	WO # 10361678
PRE-COMMISSION B2 TRANS No1 BUS 66KV CB	ZA20 - (ATS) INSTALL 66KV SERIES REACTOR	SPICAPX	1/10/12	00:00:00	2/10/12	11:04:00		B2 220/66KV TRANS AT ATS	35.067	EXCLUDE 1.2 Connection asset	WO # ZA2058B8
Install mono poles in Parks Victoria depot	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	1/10/12	06:33:00	1/10/12	17:45:00		B1 220/66KV TRANS AT RTS	11.200	EXCLUDE 1.2 Connection asset	WO # ZB1258B8
Change B4 Tx SDs & Remove Div Switch to Realign		SPIMAIN	1/10/12	07:00:00	2/10/12	16:01:00		B4 220/66KV TRANS AT SVTS	33.017	EXCLUDE 1.2 Connection asset	WO # 10376118
Install North wall tilt panels for future B6 Trans	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	2/10/12	06:01:00	2/10/12	16:52:00		B4 220/66KV TRANS AT RTS	10.850	EXCLUDE 1.2 Connection asset	WO # ZB1258B5
Rebate for bus outage		FAULT	2/10/12	13:15:00	2/10/12	14:23:00		B3 220/66KV TRANS AT WMTS	1.133	EXCLUDE 1.2 Connection asset	WO # 10377573
Install mono poles in Parks Victoria depot	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	4/10/12	09:01:00	4/10/12	17:54:00		B1 220/66KV TRANS AT RTS	8.883	EXCLUDE 1.2 Connection asset	WO # ZB1258B8
Install mono poles in Parks Victoria depot	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	5/10/12	06:05:00	5/10/12	18:26:00		B1 220/66KV TRANS AT RTS	12.350	EXCLUDE 1.2 Connection asset	WO # ZB1258B8
Wash Trans & Repair Oil Leaks	VB26 - (WMTS) REPAIR B2 & L1 TRANS OIL LEAKS	SPICAPX	5/10/12	07:11:00	7/10/12	12:59:00		B2 220/66KV TRANS AT WMTS	53.800	EXCLUDE 1.2 Connection asset	WO # VB2658A3
Perf calc w/o B2 Trans during No1 66kV Bus de-ener	VC34 - REFURBISH 4 ABB 66KV CAP BANK & SHUNT REACTOR CBS	SPICAPX	11/10/12	11:00:00	11/10/12	11:36:00		B2 220/66KV TRANS AT HOTS	0.600	EXCLUDE 1.2 Connection asset	WO # 10376364
VLF Tests on Fut No2 Trans grp 22kv Cables	Z907 - (BETS) INSTALL TWO NEW 75MVA 220/22KV TRANSFORMERS	SPICAPX	13/10/12	08:02:00	15/10/12	08:00:00		2A 220/66/22KV TRANS BANK AT BETS	47.967	EXCLUDE 1.2 Connection asset	WO # Z90758B5

Future B1 Trans Civil Work	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	15/10/12	05:38:00	15/10/12	17:40:00		B1 220/66KV TRANS AT KTS	12.033	EXCLUDE 1.2 Connection asset	WO # XA1558E6	
B2 Trans 220kV CB Low SF6		FORCED	15/10/12	12:12:00	15/10/12	12:36:00		B2 220/66KV TRANS AT TBTS	0.400	EXCLUDE 1.2 Connection asset	WO # 10378084	
Future B1 Trans Civil Work	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	16/10/12	04:57:00	16/10/12	16:17:00		B1 220/66KV TRANS AT KTS	11.333	EXCLUDE 1.2 Connection asset	WO # XA1558E6	
Replace No2 22kV BUS in BAY 7&8	Z907 - (BETS) INSTALL TWO NEW 75MVA 220/22KV TRANSFORMERS	SPICAPX	16/10/12	06:58:00	16/10/12	20:27:00		R2A/2B 220/66/22KV TRANS GROUP AT BETS	13.483	EXCLUDE 1.2 Connection asset	WO # Z90758A5	
Replace No2 22kV BUS in BAY 6	Z907 - (BETS) INSTALL TWO NEW 75MVA 220/22KV TRANSFORMERS	SPICAPX	17/10/12	04:50:00	17/10/12	20:57:00		R2A/2B 220/66/22KV TRANS GROUP AT BETS	16.117	EXCLUDE 1.2 Connection asset	WO # Z90758A6	
Future B1 Trans Civil Work	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	17/10/12	06:01:00	17/10/12	17:01:00		B1 220/66KV TRANS AT KTS	11.000	EXCLUDE 1.2 Connection asset	WO # XA1558E6	
Condition Monitoring Metro Trans 2day West Area		SPIMAIN	17/10/12	07:11:00	19/10/12	13:46:00		B4 220/66KV TRANS AT WMTS	54.583	EXCLUDE 1.2 Connection asset	WO # 10364207	
Remove No2 Tran Grp 22kV connections	Z907 - (BETS) INSTALL TWO NEW 75MVA 220/22KV TRANSFORMERS	SPICAPX	18/10/12	05:20:00	18/10/12	17:29:00		R2A/2B 220/66/22KV TRANS GROUP AT BETS	12.150	EXCLUDE 1.2 Connection asset	WO # Z90758A7	
Lift new 220kV cable ends to stands at B6 Trans	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	18/10/12	06:35:00	18/10/12	14:39:00		B4 220/66KV TRANS AT RTS	8.067	EXCLUDE 1.2 Connection asset	WO # ZB1258D7	
Remove No4 Tran 22kV connections	Z907 - (BETS) INSTALL TWO NEW 75MVA 220/22KV TRANSFORMERS	SPICAPX	19/10/12	04:31:00	19/10/12	18:18:00		R4 220/66/22KV TRANS AT BETS	13.783	EXCLUDE 1.2 Connection asset	WO # Z90758A8	
HOTS: B3 Trans 220kV CB		FORCED	19/10/12	16:35:00	19/10/12	22:43:00		B3 220/66KV TRANS AT HOTS	6.133	EXCLUDE 1.2 Connection asset	WO # 10378294	
Remove No4 Tran 22kV BUS Bay 2	Z907 - (BETS) INSTALL TWO NEW 75MVA 220/22KV TRANSFORMERS	SPICAPX	20/10/12	05:21:00	20/10/12	17:56:00		R4 220/66/22KV TRANS AT BETS	12.583	EXCLUDE 1.2 Connection asset	WO # Z90758A9	
Remove No4 Tran 22kV BUS Bay 3	Z907 - (BETS) INSTALL TWO NEW 75MVA 220/22KV TRANSFORMERS	SPICAPX	22/10/12	06:35:00	22/10/12	21:18:00		R4 220/66/22KV TRANS AT BETS	14.717	EXCLUDE 1.2 Connection asset	WO # Z90758B0	
Perf calc w/o No1 Trans during No2 220kV Bus out	VB94 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP-ST2	SPIMAIN	23/10/12	07:45:00	23/10/12	16:10:00		B1 220/66KV TRANS AT BATS	8.417	EXCLUDE 1.2 Connection asset	WO # VB9458O1	
Work On & In Proximity Of B4 Trans	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	24/10/12	05:56:00	24/10/12	16:43:00		B4 220/66KV TRANS AT KTS	10.783	EXCLUDE 1.2 Connection asset	WO # XA1558E9	
Lift B6 Trans 66kV gantry components into position	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	24/10/12	06:30:00	24/10/12	17:29:00		B4 220/66KV TRANS AT RTS	10.983	EXCLUDE 1.2 Connection asset	WO # ZB1258E1	
Perf calc w/o No1 Trans during No2 220kV Bus out	VB94 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP-ST2	SPIMAIN	24/10/12	07:17:00	24/10/12	17:11:00		B1 220/66KV TRANS AT BATS	9.900	EXCLUDE 1.2 Connection asset	WO # VB9458O1	
Perf calc w/o No1 Trans during No2 220kV Bus out	VB94 - REPLACE BLADE ROTATION COLLARS ABB 220KV DBRP-ST2	SPIMAIN	25/10/12	07:08:00	25/10/12	14:03:00		B1 220/66KV TRANS AT BATS	6.917	EXCLUDE 1.2 Connection asset	WO # VB9458O1	
Perf calc w/o No1 Tr during No1 66kV Bus de-energ	VC34 - REFURBISH 4 ABB 66KV CAP BANK & SHUNT REACTOR CBS	SPICAPX	26/10/12	13:37:00	26/10/12	13:43:00		R1 220/66/22KV TRANS AT KGTS	0.100	EXCLUDE 1.2 Connection asset	WO # 10376371	
Primary injection of Neutral CT confirm polarity	X7F0 - (RWTS) REBUILD 220 & 22KV SWITCHYARDS	SPICAPX	29/10/12	07:06:00	29/10/12	14:00:00		NO.2 22KV CAPACITOR BANK AT RWTS	6.900	EXCLUDE 1.2 Connection asset	WO # X7F058F8	
Future 2-4 B/T and No4 22kV Bus Bay 4 &5	Z907 - (BETS) INSTALL TWO NEW 75MVA 220/22KV TRANSFORMERS	SPICAPX	30/10/12	05:30:00	30/10/12	20:59:59		R4 220/66/22KV TRANS AT BETS	15.500	EXCLUDE 1.2 Connection asset	WO # Z90758B7	
O/HAUL Transformer (with Reinhausen Div Sw) (N)		SPIMAIN	30/10/12	07:42:00	30/10/12	13:58:00		B1 220/66KV TRANS AT WBTS	6.267	EXCLUDE 1.1 Unregulated transmission asset	WO # 10356655	
NO.1 11/220KV TRANS BANK WHITE PHASE BUSHI LOW OIL		SPIMAIN	30/10/12	07:45:00	30/10/12	14:34:00		NO.1 11/220KV TRANS BANK AT MPS	6.817	EXCLUDE 1.2 Connection asset	WO # 10374956	
O/HAUL Transformer (with Reinhausen Div Sw) (N)		SPIMAIN	31/10/12	07:37:00	31/10/12	12:57:00		B2 220/66KV TRANS AT WBTS	5.333	EXCLUDE 1.1 Unregulated transmission asset	WO # 10356658	
Out W/O B3 Trans to investigate 220kV CB Sf6 alarm		SPIMAIN	1/11/12	09:08:00	1/11/12	11:39:00		B3 220/66KV TRANS AT HOTS	2.517	EXCLUDE 1.2 Connection asset	WO # 10378517	
Install E/STH wall tilt panels for future B6 Trans	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	2/11/12	06:13:00	2/11/12	16:20:00		B4 220/66KV TRANS AT RTS	10.117	EXCLUDE 1.2 Connection asset	WO # ZB1258B6	
Perf calc w/o No3 Tr during No2 66kV Bus de-energ	VC34 - REFURBISH 4 ABB 66KV CAP BANK & SHUNT REACTOR CBS	SPICAPX	9/11/12	15:26:00	9/11/12	15:49:00		R3 220/66/22KV TRANS AT KGTS	0.383	EXCLUDE 1.2 Connection asset	WO # 10377886	
RWTS L3 Trans Gas Alarm		FORCED	11/11/12	05:59:00	11/11/12	10:11:00		EX - L3 220/22KV TRANS BANK AT RWTS	4.200	EXCLUDE 1.2 Connection asset	WO # 10379609	
Work Adjacent To & On B1 Trans 66KV Bus	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	12/11/12	05:57:00	12/11/12	16:59:00		B1 220/66KV TRANS AT KTS	11.033	EXCLUDE 1.2 Connection asset	WO # XA1558E7	
APD Work	Outage requested by APDALCOA	APDALCOA	12/11/12	07:30:00	16/11/12	14:46:00	HYTS-APD 1 500KV W		103.267	EXCLUDE 1.3 Third party outage	WO # 10378975	WO 10378975 HYTS-APD No1 12-16 NOV.pdf
Work Adjacent To B1 Trans & B1 Tr 66KV CB	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	13/11/12	06:00:00	13/11/12	17:13:00		B1 220/66KV TRANS AT KTS	11.217	EXCLUDE 1.2 Connection asset	WO # XA1558E8	

Work Adjacent To B1 Trans & B1 Tr 66KV CB	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	14/11/12	05:55:00	14/11/12	16:58:00		B1 220/66KV TRANS AT KTS	11.050	EXCLUDE 1.2 Connection asset	WO # XA1558E8	
O/HAUL Transformer (with Reinhausen Div Sw) (W)		SPIMAIN	14/11/12	06:05:00	14/11/12	17:15:00		B1 220/66KV TRANS AT TTS	11.167	EXCLUDE 1.2 Connection asset	WO # 10356201	
Perf calc W/O B2 Trans during No2 66 bus outage		SPIMAIN	14/11/12	06:39:00	14/11/12	17:11:00		B2 220/66KV TRANS AT SHTS	10.533	EXCLUDE 1.2 Connection asset	WO # 10348709	
B1 trans		SPIMAIN	14/11/12	17:16:00	15/11/12	08:00:00		B1 220/66KV TRANS AT TTS	14.733	EXCLUDE 1.2 Connection asset	WO # 10379757	
Work Adjacent To B1 Trans & B1 Tr 66KV CB	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	15/11/12	06:01:00	15/11/12	17:06:00		B1 220/66KV TRANS AT KTS	11.083	EXCLUDE 1.2 Connection asset	WO # XA1558E8	
Perf calc W/O B2 Trans during No2 66 bus outage		SPIMAIN	15/11/12	06:28:00	15/11/12	16:49:00		B2 220/66KV TRANS AT SHTS	10.350	EXCLUDE 1.2 Connection asset	WO # 10348709	
Reset Gas Trap		SPIMAIN	15/11/12	08:01:00	15/11/12	12:01:00		B1 220/66KV TRANS AT TTS	4.000	EXCLUDE 1.2 Connection asset	WO # 10379758	
Perf calc W/O B2 Trans during No2 66 bus outage		SPIMAIN	16/11/12	06:40:00	16/11/12	15:05:00		B2 220/66KV TRANS AT SHTS	8.417	EXCLUDE 1.2 Connection asset	WO # 10348709	
SOR: BLTS U1 Trans and PAR Unavail		SPIMAIN	18/11/12	15:41:00	21/11/12	06:37:00		U1 66/22KV TRANS AT BLTS	62.933	EXCLUDE 1.2 Connection asset	WO # 10379699	
APD Work	Outage requested by APDALCOA	APDALCOA	19/11/12	05:00:00	23/11/12	16:14:00	HYTS-APD 2 500KV W		107.233	EXCLUDE 1.3 Third party outage	WO # 10378976	WO 10378976 HYTS-APD No2 19-23 NOV.pdf
Remove All Connections to Declare L2 Tr OOC	X874 - (BLTS) STATION REBUILD	SPICAPX	20/11/12	05:57:00	20/11/12	11:16:00		L2 220/22KV TRANS BANK AT BLTS	5.317	EXCLUDE 1.2 Connection asset	WO # X87458S5	
Repair Selector Switch		SPIMAIN	20/11/12	06:59:00	22/11/12	12:50:00		B1 220/66KV TRANS AT ERTS	53.850	EXCLUDE 1.2 Connection asset	WO # 10378639	
MLTS - MOPS No.2 500KV Line trip	Outage requested by GENCO	REM_TRIP	20/11/12	10:03:00	20/11/12	12:38:00	MLTS-MOPS 2 500KV W		2.583	EXCLUDE 1.3 Third party outage	WO # 10379899	WO 10379899 INCIDENT-10379875-CUSTOMER.pdf
Work to Declare U1 Tr, PAR & Assoc Gear OOC	X874 - (BLTS) STATION REBUILD	SPICAPX	21/11/12	06:38:00	21/11/12	14:17:00		U1 66/22KV TRANS AT BLTS	7.650	EXCLUDE 1.2 Connection asset	WO # X87458S9	
Trans Tripped - Pending Investigations / Repairs		FAULT	25/11/12	00:20:00	25/11/12	14:08:00		A1 500/220KV TRANS BANK AT CBTS	13.800	EXCLUDE 1.1 Unregulated transmission asset	WO # 10380059	
B3 Trans		FAULT	25/11/12	05:29:00	25/11/12	07:44:00		B3 220/66KV TRANS AT RTS	2.250	EXCLUDE 1.2 Connection asset	WO # 10380065	
L4 Trans		FAULT	25/11/12	05:29:00	25/11/12	07:44:00		L4 220/22KV TRANS AT RTS	2.250	EXCLUDE 1.2 Connection asset	WO # 10380079	
B6 Trans		FAULT	25/11/12	05:29:00	25/11/12	07:44:00		B6 220/66KV TRANS AT RTS	2.250	EXCLUDE 1.1 Unregulated transmission asset	WO # 10382070	
Perf calc w/o B1 Trans during 66kV Tie Bus outage		SPIMAIN	26/11/12	08:42:00	26/11/12	17:12:00		B1 220/66KV TRANS (HOT SPARE) AT MBTS	8.500	EXCLUDE 1.2 Connection asset	WO # 10379431	
Perf calc w/o B2 Trans during 66kV Tie Bus outage		SPIMAIN	26/11/12	08:42:00	26/11/12	17:12:00		B2 220/66KV TRANS AT MBTS	8.500	EXCLUDE 1.2 Connection asset	WO # 10379432	
Lower Trans Oil Level & Repair Leaks	VB26 - (WMTS) REPAIR B2 & L1 TRANS OIL LEAKS	SPIMAIN	26/11/12	10:02:00	29/11/12	10:57:00		B2 220/66KV TRANS AT WMTS	72.917	EXCLUDE 1.2 Connection asset	WO # VB2658A4	
SOR: B1 Trans at MBTS		SPIMAIN	26/11/12	17:13:00	27/11/12	07:29:00		B1 220/66KV TRANS (HOT SPARE) AT MBTS	14.267	EXCLUDE 1.2 Connection asset	WO # 10379999	
Oil leak coming from around capillary tube		SPIMAIN	27/11/12	07:29:00	27/11/12	15:48:00		B1 220/66KV TRANS (HOT SPARE) AT MBTS	8.317	EXCLUDE 1.2 Connection asset	WO # 10379441	
B1 Trans 220kV CB Opened		FAULT	27/11/12	11:49:00	27/11/12	12:06:00		B1 220/66KV TRANS AT KTS	0.283	EXCLUDE 1.2 Connection asset	WO # 10380139	
B3 Trans 220kV CB Opened		FAULT	27/11/12	11:49:00	27/11/12	11:59:00		B3 220/66KV TRANS AT KTS	0.167	EXCLUDE 1.2 Connection asset	WO # 10380140	
Transfer Conductor from Tower C to new mono pole	ZB12 - (RTS) TEMPORARY 5TH 220/66KV TRANSFORMER	SPICAPX	1/12/12	05:48:00	2/12/12	21:31:00		B1 220/66KV TRANS AT RTS	39.717	EXCLUDE 1.2 Connection asset	WO # ZB1258E6	
B6 rebate child		FAULT	2/12/12	06:49:00	2/12/12	09:38:00		B6 220/66KV TRANS AT RTS	2.817	EXCLUDE 1.1 Unregulated transmission asset	WO # 10382100	
B3 rebate child		FAULT	2/12/12	06:49:00	2/12/12	09:38:00		B3 220/66KV TRANS AT RTS	2.817	EXCLUDE 1.2 Connection asset	WO # 10382101	
L4 rebate child		FAULT	2/12/12	06:49:00	2/12/12	09:38:00		L4 220/22KV TRANS AT RTS	2.817	EXCLUDE 1.2 Connection asset	WO # 10382102	
replace repaired radiator fans		SPIMAIN	4/12/12	06:11:00	4/12/12	15:05:00		B1 220/66KV TRANS AT FBTS	8.900	EXCLUDE 1.2 Connection asset	WO # 10379428	
Overhaul Trans & Divter Switch		SPIMAIN	8/12/12	06:13:00	8/12/12	13:02:00		L4 220/22KV TRANS AT RTS	6.817	EXCLUDE 1.2 Connection asset	WO # 10351614	
B1 & B2 Tr Outage for Gantry Work	XA15 - (KTS) 220/66KV TRANSFORMER REPLACEMENT	SPICAPX	9/12/12	05:57:00	9/12/12	17:47:00		B1 220/66KV TRANS AT KTS	11.833	EXCLUDE 1.2 Connection asset	WO # XA1558F4	
Excavate around and expose No4 Trans 22kV cables	Z907 - (BETS) INSTALL TWO NEW 75MVA 220/22KV TRANSFORMERS	DB_AUG	12/12/12	06:02:00	12/12/12	14:26:00		R4 220/66/22KV TRANS AT BETS	8.400	EXCLUDE 1.2 Connection asset	WO # Z90758C6	
APD outage	Outage requested by APDALCOA	APDALCOA	12/12/12	08:02:00	12/12/12	08:51:00	HYTS-APD 1 500KV W		0.817	EXCLUDE 1.3 Third party outage	WO # 10382057	WO 10382057 and 10382058 APD Outages 12-13 Dec.pdf

	events > 0.05 system												
S7	Loss of supply event frequency (no. of events > 0.3 system)												

AVERAGE OUTAGE DURATION	Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Circuits affected	Quantitative impact	Capped impact (if applicable)	Reasons for exclusion request	Further references	Comments
Name of any average outage duration parameters applying to SP AusNet	Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted.	A description of the cause of the event	Start date and time of event	End date and time of event			Name of circuits or plant affected	Number of hours, mins etc interrupted	Impact of 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.	Details of reference attachments if applicable
S8	Average outage duration- lines (minutes)	SMTS-TTS No. 1 Line off load	FORCMAJ	19/06/12	20:53:00	19/06/12	21:34:00	SMTS-TTS 1 220KV WT	0.683		EXCLUDE 8.4 Force majeure	WO # 10372392, SIR # 10372391	INCIDENT-10372386-AEMO.pdf and Multiple_contingency_Event_following_Victoria_Earthquake_19_June_2012_v2.pdf[1].pdf
S9	Average outage duration- transformers (minutes)	WBTS B1 Trans Tripped	FAULT	10/02/12	17:48:00	10/02/12	20:08:00	B1 220/66KV TRANS AT WBTS	2.333		EXCLUDE 9.1 Unregulated transmission asset	WO # 10361198, SIR # 10361196	
		SIR outage	FAULT	17/02/12	09:17:00	17/02/12	09:28:00	R3 220/66/22KV TRANS AT RCTS	0.183		EXCLUDE 9.1 Unregulated transmission asset	WO # 10361504, SIR # 10361481	
		B5 Trans forced off	FORCED	22/02/12	09:42:00	22/02/12	12:05:00	B5 220/66KV TRANS AT KTS	2.383		EXCLUDE 9.1 Unregulated transmission asset	WO # 10361892	
		B1 Transformer	FORCED	27/02/12	17:31:00	27/02/12	19:02:00	B1 220/66KV TRANS AT WBTS	1.517		EXCLUDE 9.1 Unregulated transmission asset	WO # 10361740, SIR # 10361739	
		B2 Transformer Fault	FAULT	15/04/12	07:06:00	15/04/12	12:14:00	B2 220/66KV TRANS AT ERTS	5.133		EXCLUDE 9.1 Unregulated transmission asset	WO # 10363694, SIR # 10363690	
		B1 off loaded	FAULT	27/04/12	20:59:00	27/04/12	21:05:00	B1 220/66KV TRANS AT SMTS	0.100		EXCLUDE 9.1 Unregulated transmission asset	WO # 10370033, SIR # 10370031	
		H1 Trans trip	FORCMAJ	19/06/12	20:53:00	20/06/12	00:03:00	H1 330/220KV TRANS BANK AT SMTS	3.167		EXCLUDE 9.4 Force majeure	WO # 10372387, SIR # 10372386	INCIDENT-10372386-AEMO.pdf and Multiple_contingency_Event_following_Victoria_Earthquake_19_June_2012_v2.pdf[1].pdf
		H2 Trans trip	FORCMAJ	19/06/12	20:53:00	20/06/12	00:34:00	H2 330/220KV TRANS BANK AT SMTS	3.683		EXCLUDE 9.4 Force majeure	WO # 10372388, SIR # 10372386	INCIDENT-10372386-AEMO.pdf and Multiple_contingency_Event_following_Victoria_Earthquake_19_June_2012_v2.pdf[1].pdf
		B5 Trans de-energised	FORCED	13/08/12	17:06:00	14/08/12	16:36:00	B5 220/66KV TRANS AT KTS	23.500		EXCLUDE 9.1 Unregulated transmission asset	WO # 10374499, SIR # 10374498	
		Trans Tripped - Pending Investigations / Repairs	FAULT	25/11/12	00:20:00	25/11/12	14:08:00	A1 500/220KV TRANS BANK AT CBTS	13.800		EXCLUDE 9.1 Unregulated transmission asset	WO # 10380059, SIR # 10380060	
B6 Trans	FAULT	25/11/12	05:29:00	25/11/12	07:44:00	B6 220/66KV TRANS AT RTS	2.250		EXCLUDE 9.1 Unregulated transmission asset	WO # 10382070, SIR # 10380062			
B6 rebate child	FAULT	2/12/12	06:49:00	2/12/12	09:38:00	B6 220/66KV TRANS AT RTS	2.817		EXCLUDE 9.1 Unregulated transmission asset	WO # 10382100, SIR # 10380390			
RTS No3 220 kV Bus Tripped	FAULT	28/12/12	02:49:00	28/12/12	05:20:00	B6 220/66KV TRANS AT RTS	2.517		EXCLUDE 9.1 Unregulated transmission asset	WO # 10382820			

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.

SP AusNet - S1 - Total circuit availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Total circuit availability	98.20%	98.41%	98.73%	99.05%	99.30%
Weighting	-0.20%	-0.20%	0.00%	0.20%	0.20%

Performance Formulae	Formulae					Conditions				S- Calc 1	S- Calc 2		
Performance	=	-0.002000				When:	Availability	<	98.41%	-0.002000	-0.002000		
	=	0.625000	x	Availability	+	-0.617063	98.41%	≤	Availability	≤	98.73%	0.002663	0.003279
	=	0.625000	x	Availability	+	-0.617062	98.73%	≤	Availability	≤	99.05%	0.002663	0.003279
	=	0.002000					99.05%	<	Availability			0.002000	0.002000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Total circuit availability	=	99.156127%	99.254657%
S-Factor	=	0.200000%	0.200000%

NOTE:

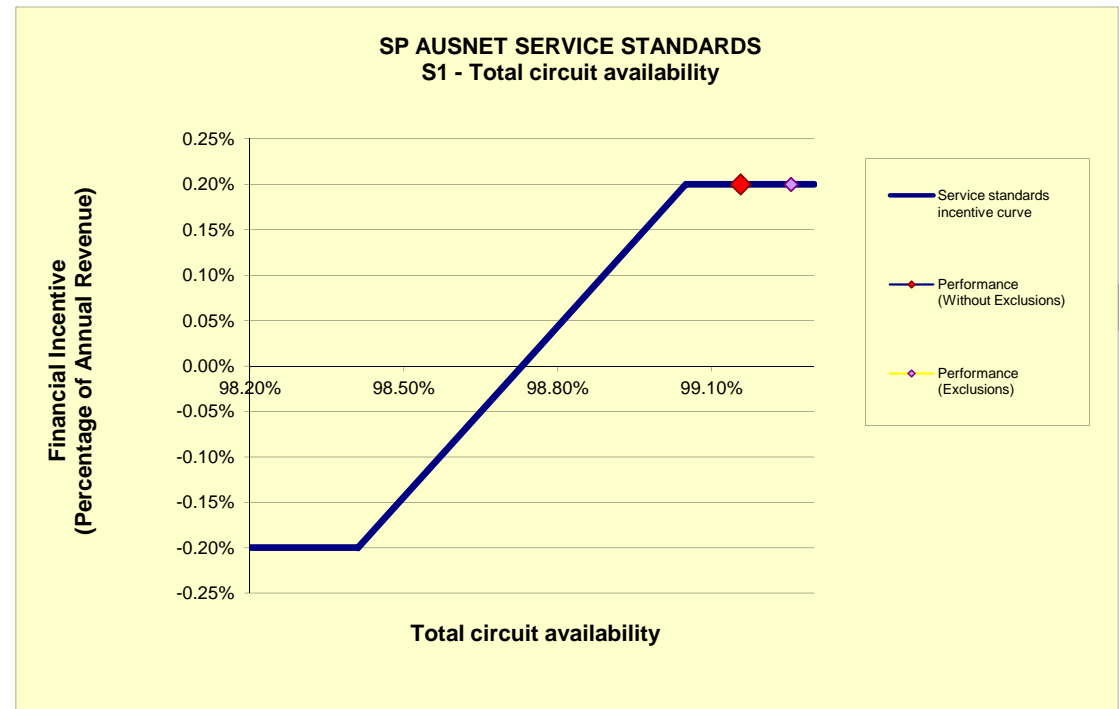
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SP AusNet - S2 - Peak critical availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Peak critical availability	98.40%	98.62%	99.39%	99.78%	100.00%
Weighting	-0.20%	-0.20%	0.00%	0.20%	0.20%

Performance Formulae	Formulae				Conditions			S- Calc 1	S- Calc 2				
Performance	=	-0.002000			When:	Availability	<	98.62%	-0.002000	-0.002000			
	=	0.259740	x	Availability	+	-0.258156	98.62%	≤	Availability	≤	99.39%	0.000861	0.001049
	=	0.512821	x	Availability	+	-0.509692	99.39%	≤	Availability	≤	99.78%	0.001700	0.002071
	=	0.002000					99.78%	<	Availability			0.002000	0.002000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Peak critical availability	=	99.721472%	99.793928%
S-Factor	=	0.169986%	0.200000%

NOTE:

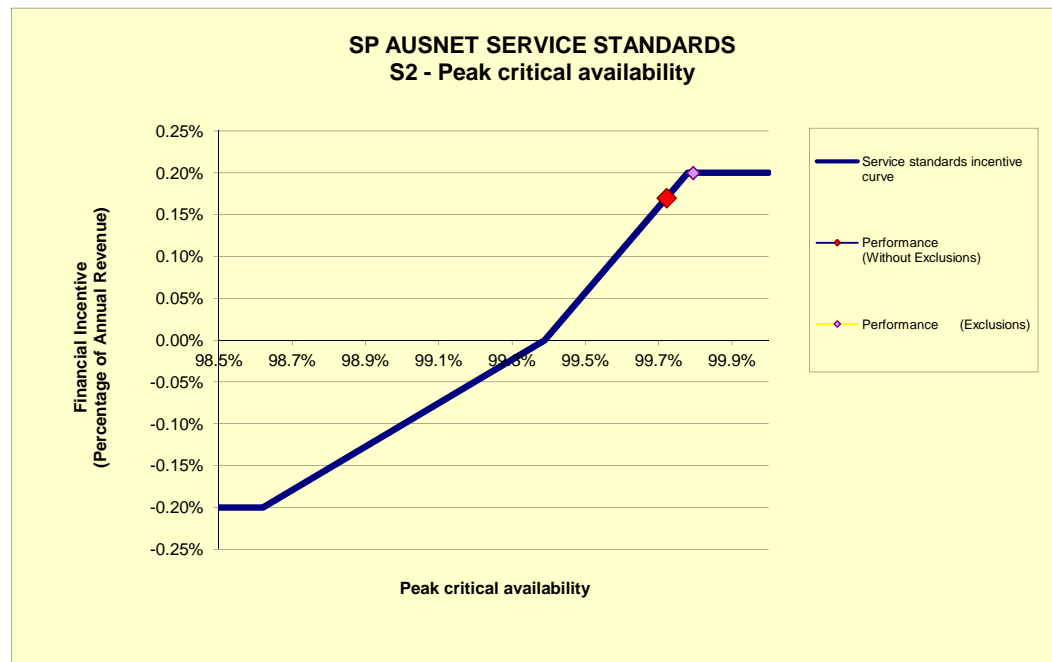
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SP AusNet - S3 - Peak non-critical availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Peak non-critical availability	98.60%	98.83%	99.40%	99.69%	99.90%
Weighting	-0.05%	-0.05%	0.00%	0.05%	0.05%

Performance Formulae	Formulae				Conditions			S- Calc 1	S- Calc 2				
Performance	=	-0.000500			When:	Availability	<	98.83%	-0.000500	-0.000500			
	=	0.087719	x	Availability	+	-0.087193	98.83%	≤	Availability	≤	99.40%	0.000409	0.000446
	=	0.172414	x	Availability	+	-0.171379	99.40%	≤	Availability	≤	99.69%	0.000804	0.000876
	=	0.000500					99.69%	<	Availability			0.000500	0.000500

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Peak non-critical availability	=	99.866606%	99.908144%
S-Factor	=	0.050000%	0.050000%

NOTE:

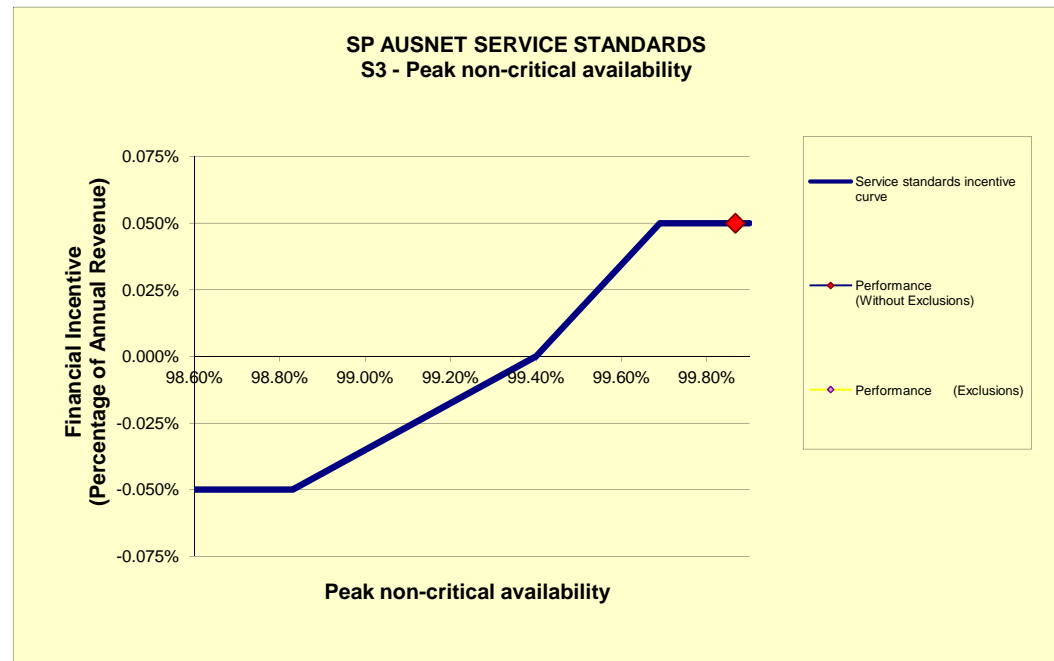
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SP AusNet - S4 - Intermediate critical availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Intermediate critical availability	97.10%	97.29%	98.67%	99.36%	99.60%
Weighting	-0.03%	-0.025%	0.00%	0.025%	0.03%

Performance Formulae	Formulae				Conditions			S- Calc 1	S- Calc 2				
Performance	=	-0.000250			When:	Availability	<	97.29%	-0.000250	-0.000250			
	=	0.018116	x	Availability	+	-0.017875	97.29%	≤	Availability	≤	98.67%	0.000174	0.000181
	=	0.036232	x	Availability	+	-0.035750	98.67%	≤	Availability	≤	99.36%	0.000348	0.000362
	=	0.000250					99.36%	<	Availability			0.000250	0.000250

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Intermediate critical availability	=	99.629915%	99.668247%
S-Factor	=	0.025000%	0.025000%

NOTE:

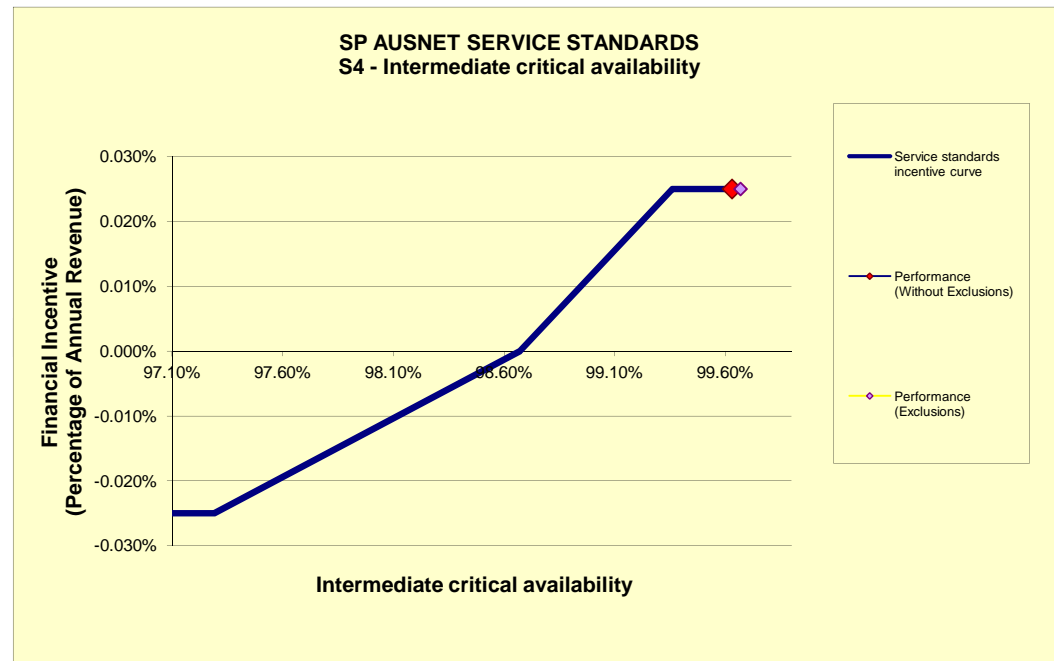
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SP AusNet - S5 - Intermediate non-critical availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Intermediate non-critical availability	97.40%	97.57%	98.73%	99.31%	99.50%
Weighting	-0.03%	-0.03%	0.00%	0.03%	0.03%

Performance Formulae	Formulae				Conditions			S- Calc 1	S- Calc 2				
Performance	=	-0.000250			When:	Availability	<	97.57%	-0.000250	-0.000250			
	=	0.021552	x	Availability	+	-0.021278	97.57%	≤	Availability	≤	98.73%	0.000016	0.000038
	=	0.043103	x	Availability	+	-0.042556	98.73%	≤	Availability	≤	99.31%	0.000031	0.000076
	=	0.000250					99.31%	<	Availability			0.000250	0.000250

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Intermediate non-critical availability	=	98.802622%	98.905769%
S-Factor	=	0.003130%	0.007576%

NOTE:

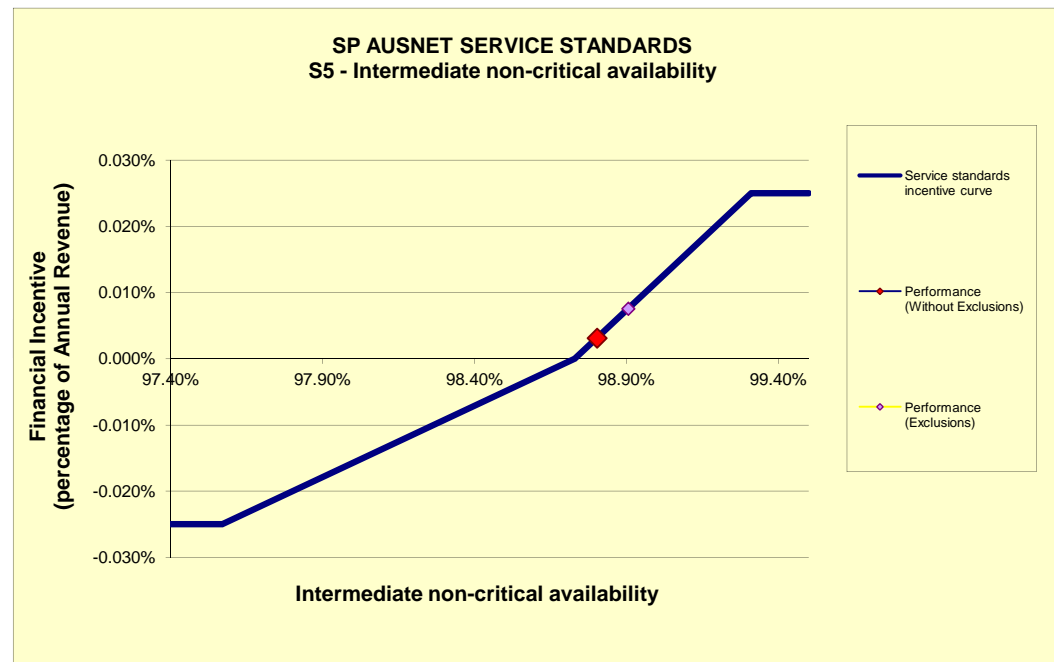
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SP AusNet - S6 - Loss of supply event frequency (no. of events > 0.05 system minutes per annum)

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Loss of supply event frequency (no. of events > 0.05 system minutes per annum)	11	9	6	3	-
Weighting	-0.13%	-0.125%	0.00%	0.125%	0.13%

Performance Formulae	Formulae					Conditions				S- Calc 1	S- Calc 2		
Performance	=	-0.001250				9.00	<	No. of events			-0.001250	-0.001250	
	=	-0.000417	x	No. of events	+	0.002500	6.00	≤	No. of events	≤	9.00	0.001667	0.001667
	=	-0.000417	x	No. of events	+	0.002500	3.00	≤	No. of events	≤	6.00	0.001667	0.001667
	=	0.001250							No. of events	<	3.00	0.001250	0.001250

Loss of supply event frequency (no. of events > 0.05 system minutes per annum)	Performance (Without Exclusions)	Performance (Exclusions)
Loss of supply event frequency (no. of events > 0.05 system minutes per annum)	= 2	2
S-Factor	0.125000%	0.125000%

NOTE:

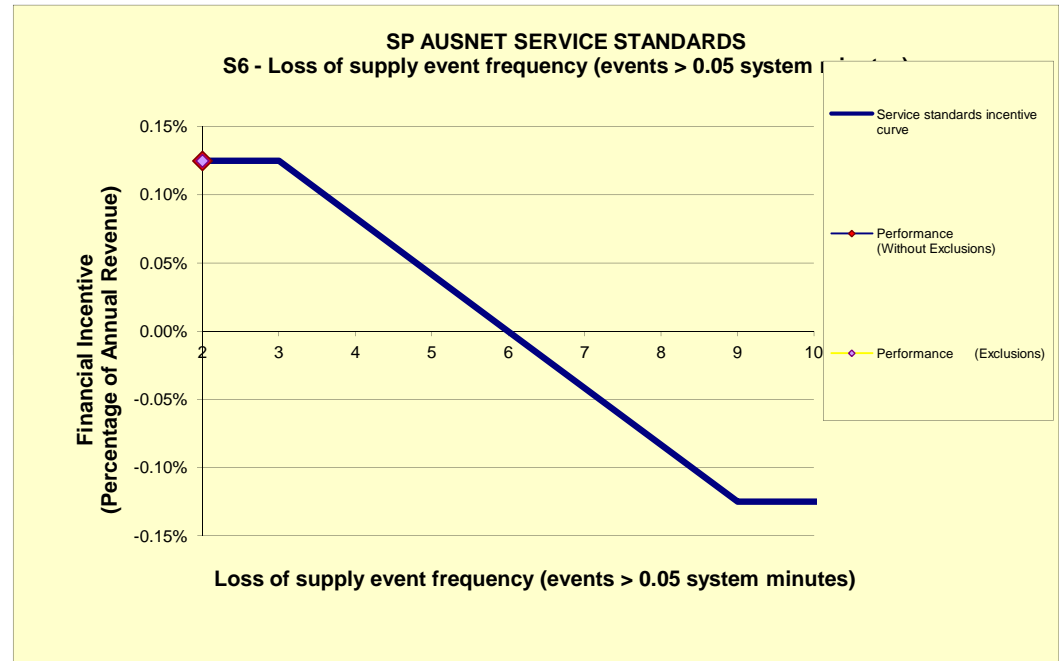
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SP AusNet - S7 - Loss of supply event frequency (no. of events > 0.3 system minutes per annum)

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Loss of supply event frequency (no. of events > 0.3 system minutes per annum)	6	4	1	0	0
Weighting	-0.13%	-0.125%	0.00%	0.125%	0.13%

Performance Formulae	Formulae					Conditions				S- Calc 1	S- Calc 2		
Performance	=	-0.001250				4.00	<	No. of events			-0.001250	-0.001250	
	=	-0.000417	x	No. of events	+	0.000417	1.00	≤	No. of events	≤	4.00	0.000000	0.000000
	=	-0.001250	x	No. of events	+	0.001250	0.00	≤	No. of events	≤	1.00	0.000000	0.000000
	=	0.001250							No. of events	=	0.00	0.001250	0.001250

Loss of supply event frequency (no. of events > 0.3 system minutes per annum)	Performance (Without Exclusions)	Performance (Exclusions)
Loss of supply event frequency (no. of events > 0.3 system minutes per annum)	= 1	1
S-Factor	0.000000%	0.000000%

NOTE:

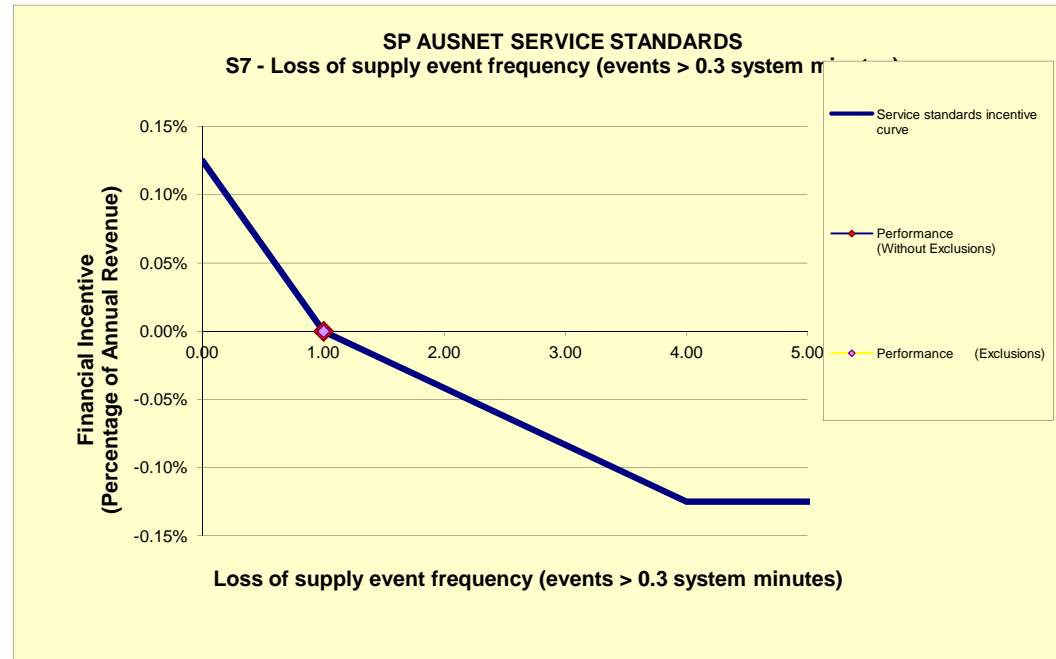
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SP AusNet - S8 - Average outage duration– lines (minutes)

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Average outage duration– lines (minutes)	867	667	382	98	-
Weighting	-0.13%	-0.125%	0.00%	0.125%	0.13%

Performance Formulae	Formulae					Conditions				S- Calc 1	S- Calc 2			
Performance	=	-0.001250				667	<	Duration			-0.001250	-0.001250		
	=	-0.000004	x	Duration	+	0.001675		382	≤	Duration	≤	667	0.000767	0.000767
	=	-0.000004	x	Duration	+	0.001681		98	≤	Duration	≤	382	0.000769	0.000769
	=	0.001250								Duration	<	98	0.001250	0.001250

Average outage duration– lines (minutes)		Performance (Without Exclusions)	Performance (Exclusions)
Average outage duration– lines (minutes)	=	207.236364	207.236364
S-Factor		0.076921%	0.076921%

NOTE:

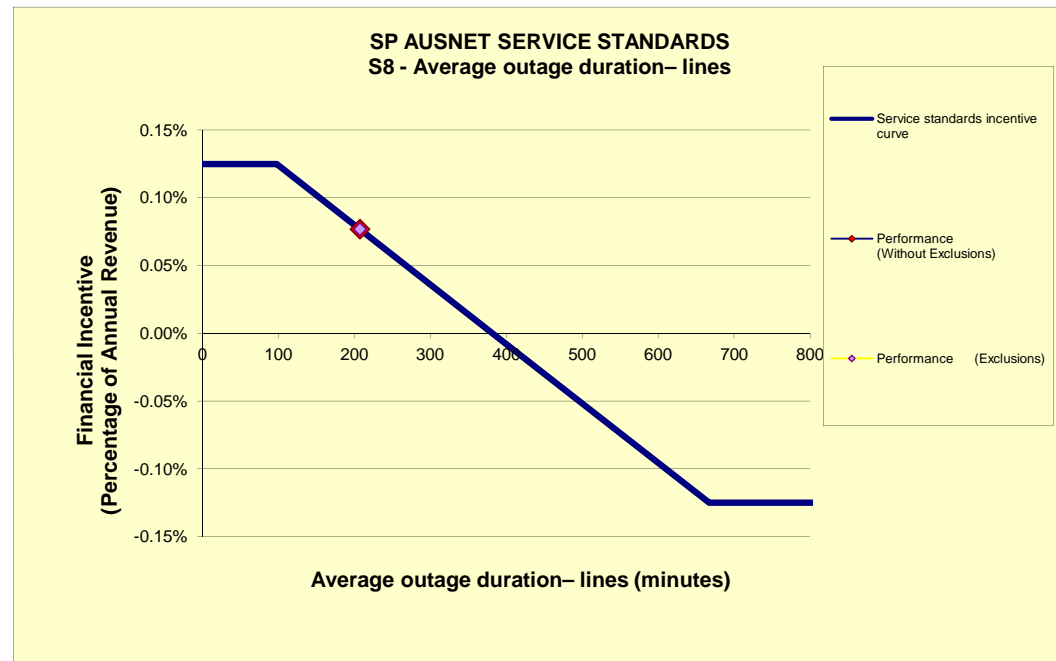
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SP AusNet - S9 - Average outage duration- transformers (minutes)

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Average outage duration- transformers (minutes)	756	556	412	268	-
Weighting	-0.13%	-0.125%	0.00%	0.125%	0.13%

Performance Formulae	Formulae					Conditions			S- Calc 1	S- Calc 2	
Performance	=	-0.001250				556.00	<	Duration		-0.001250	-0.001250
	=	-0.000009	x	Duration	+	0.003576	412.00	≤	Duration ≤ 556.00	0.002297	0.002297
	=	-0.000009	x	Duration	+	0.003576	268.00	≤	Duration ≤ 412.00	0.002297	0.002297
	=	0.001250							Duration < 268.00	0.001250	0.001250

Average outage duration- transformers (minutes)	Performance (Without Exclusions)	Performance (Exclusions)
Average outage duration- transformers (minutes)	= 147.432432	147.432432
S-Factor	= 0.125000%	0.125000%

NOTE:

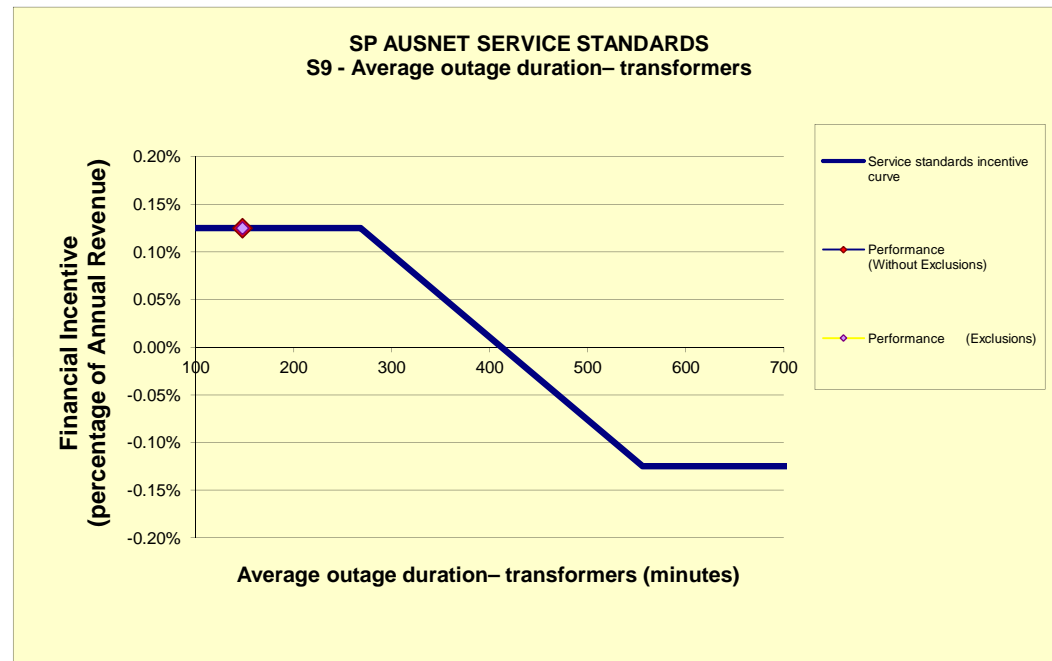
This sheet will automatically update based on data in input sheets

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

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



SP AusNet - Revenue Calculation

<i>Revenue cap information</i>	
Base year allowed revenue	\$454,974,504
Base year	2008/09
X-factor	-1.01%
Commencement of regulatory period	1-Apr-08

<i>Annual revenue adjusted for CPI</i>	Dec-07	Dec-08	Dec-09	Dec-10	Dec-11	Dec-12	Dec-13
CPI	160.1	166.0	169.5	174.0	179.4	-	-

Nominal annual revenue	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Allowed Revenue	\$454,974,504	\$476,505,796	\$491,466,786	\$509,610,174	\$530,732,461	

<i>Calendar year revenue</i>	2008	2009	2010	2011	2012	2013	2014
Revenue	\$341,230,878	\$471,122,973	\$487,726,539	\$505,074,327	\$525,451,890		

NOTE:

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

Grey cells show calendar year revenue

Green cells are for formula

SP AusNet's revenue stream operates on an April to March financial year basis.

SP AusNet - Performance outcomes

Revenue calendar year

\$525,451,890

S	Performance parameter	Target	Performance without exclusions			Performance with exclusions			Impact of exclusions
			Performance	S-Factor	Final Incentive	Performance	S-Factor	Final Incentive	
S1	Total circuit availability	98.73%	99.16%	0.20%	\$1,050,904	99.25%	0.20%	\$1,050,904	0.000%
S2	Peak critical availability	99.39%	99.72%	0.17%	\$893,193	99.79%	0.20%	\$1,050,904	0.030%
S3	Peak non-critical availability	99.40%	99.87%	0.05%	\$262,726	99.91%	0.05%	\$262,726	0.000%
S4	Intermediate critical availability	98.67%	99.63%	0.03%	\$131,363	99.67%	0.03%	\$131,363	0.000%
S5	Intermediate non-critical availability	98.73%	98.80%	0.00%	\$16,448	98.91%	0.01%	\$39,810	0.004%
S6	Loss of supply event frequency (no. of events > 0.05 system minutes per annum)	6	2	0.125000%	\$656,815	2	0.125000%	\$656,815	0.000%
S7	Loss of supply event frequency (no. of events > 0.3 system minutes per annum)	1	1	0.000000%	\$0	1	0.000000%	\$0	0.000%
S8	Average outage duration– lines (minutes)	382	207	0.076921%	\$404,181	207	0.076921%	\$404,181	0.000%
S9	Average outage duration– transformers (minutes)	412	147	0.125000%	\$656,815	147	0.125000%	\$656,815	0.000%
TOTALS				0.775037%	\$4,072,444		0.809497%	\$4,253,517	0.034%

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	0.809497%
Financial Incentive	\$4,253,517
Financial year affected by financial incentive	2013/14

SP AusNet - Defined exclusions

No.	Parameter 1- Total circuit availability		
Defined exclusions		Further description of exclusion	Reference
1.1	Unregulated transmission assets		Appendix B Revenue Cap decision
1.2	Connection assets		Appendix B Revenue Cap decision
1.3	Third party outage	Exclude from 'circuit unavailability' any outages shown to be caused by a fault or other event on a third party system e.g. intertrip signal, generator outage, customer installation; or by direction by fire services (eg. MFB, CFA or DSE Bushfire Incident Co-ordinator). Exclude an outage requested by AEMO except if SP AusNet 'causes' the outage through an act or omission. Exclude co-incident outages for a generator or HV direct connect customer defined as: - Planned outages requested by the Generator or HV Customer on their dedicated line (eg. APD at Portland or JLA Bluescope Steel at Tyabb or Alcoa point Henry Geelong). - Outages co-ordinated with the shutdown of the Generator or HV customers equipment such that the customer does not require system normal network reliability or transfer capability through the high voltage grid and the outage does not affect the supply of any other person who is connected to the high voltage grid. - Faults on the dedicated line caused by faults in the Generator or HV customer installation.	Appendix B Revenue Cap decision and as submitted by SP AusNet
1.4	Force majeure		Appendix B Revenue Cap decision
1.5	Switching 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 Revenue Cap decision
1.6	Fault-level mitigation works	Fault-level mitigation works, except for that associated with JLTS 220 kV Fault Limiting Reactors and Fault Level Mitigation Works at JLTS and MWTS; and WMTS 66 kV Bus Tie Series Fault Limiting Reactor	Appendix B Revenue Cap decision
Parameter 2- Peak critical availability			
Defined exclusions		Further description of exclusion	Reference
2.1	Unregulated transmission assets		Appendix B Revenue Cap decision
2.2	Connection assets		Appendix B Revenue Cap decision
2.3	Third party outage	Exclude from 'circuit unavailability' any outages shown to be caused by a fault or other event on a third party system e.g. intertrip signal, generator outage, customer installation; or by direction by fire services (eg. MFB, CFA or DSE Bushfire Incident Co-ordinator). Exclude an outage requested by AEMO except if SP AusNet 'causes' the outage through an act or omission. Exclude co-incident outages for a generator or HV direct connect customer defined as: - Planned outages requested by the Generator or HV Customer on their dedicated line (eg. APD at Portland or JLA Bluescope Steel at Tyabb or Alcoa point Henry Geelong). - Outages co-ordinated with the shutdown of the Generator or HV customers equipment such that the customer does not require system normal network reliability or transfer capability through the high voltage grid and the outage does not affect the supply of any other person who is connected to the high voltage grid. - Faults on the dedicated line caused by faults in the Generator or HV customer installation.	Appendix B Revenue Cap decision and as submitted by SP AusNet
2.4	Force majeure		Appendix B Revenue Cap decision
2.5	Shunt reactors	Exclude from 'circuit availability (peak critical)' and 'circuit availability (peak non-critical)' any outages of shunt reactors	Appendix B Revenue Cap decision
2.6	Switching 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 Revenue Cap decision
2.7	Fault-level mitigation works	Fault-level mitigation works, except for that associated with JLTS 220 kV Fault Limiting Reactors and Fault Level Mitigation Works at JLTS and MWTS; and WMTS 66 kV Bus Tie Series Fault Limiting Reactor	Appendix B Revenue Cap decision
Parameter 3- Peak non-critical availability			
Defined exclusions		Further description of exclusion	Reference
3.1	Unregulated transmission assets		Appendix B Revenue Cap decision
3.2	Connection assets		Appendix B Revenue Cap decision
3.3	Third party outage	Exclude from 'circuit unavailability' any outages shown to be caused by a fault or other event on a third party system e.g. intertrip signal, generator outage, customer installation; or by direction by fire services (eg. MFB, CFA or DSE Bushfire Incident Co-ordinator). Exclude an outage requested by AEMO except if SP AusNet 'causes' the outage through an act or omission. Exclude co-incident outages for a generator or HV direct connect customer defined as: - Planned outages requested by the Generator or HV Customer on their dedicated line (eg. APD at Portland or JLA Bluescope Steel at Tyabb or Alcoa point Henry Geelong). - Outages co-ordinated with the shutdown of the Generator or HV customers equipment such that the customer does not require system normal network reliability or transfer capability through the high voltage grid and the outage does not affect the supply of any other person who is connected to the high voltage grid. - Faults on the dedicated line caused by faults in the Generator or HV customer installation.	Appendix B Revenue Cap decision and as submitted by SP AusNet
3.4	Force majeure		Appendix B Revenue Cap decision
3.5	Switching 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 Revenue Cap decision
3.6	Fault-level mitigation works	Fault-level mitigation works, except for that associated with JLTS 220 kV Fault Limiting Reactors and Fault Level Mitigation Works at JLTS and MWTS; and WMTS 66 kV Bus Tie Series Fault Limiting Reactor	
3.7	Shunt reactors	Exclude from 'circuit availability (peak critical)' and 'circuit availability (peak non-critical)' any outages of shunt reactors	Appendix B Revenue Cap decision

Parameter 4- Intermediate critical availability		
Defined exclusions	Further description of exclusion	Reference
4.1	Unregulated transmission assets	Appendix B Revenue Cap decision
4.2	Connection assets	Appendix B Revenue Cap decision
4.3	Third party outage	Appendix B Revenue Cap decision and as submitted by SP AusNet
	Exclude from 'circuit unavailability' any outages shown to be caused by a fault or other event on a third party system e.g. intertrip signal, generator outage, customer installation; or by direction by fire services (eg. MFB, CFA or DSE Bushfire Incident Co-ordinator). Exclude an outage requested by AEMO except if SP AusNet 'causes' the outage through an act or omission. Exclude co-incident outages for a generator or HV direct connect customer defined as: - Planned outages requested by the Generator or HV Customer on their dedicated line (eg. APD at Portland or JLA Bluescope Steel at Tyabb or Alcoa point Henry Geelong). - Outages co-ordinated with the shutdown of the Generator or HV customers equipment such that the customer does not require system normal network reliability or transfer capability through the high voltage grid and the outage does not affect the supply of any other person who is connected to the high voltage grid. - Faults on the dedicated line caused by faults in the Generator or HV customer installation.	
4.4	Force majeure	Appendix B Revenue Cap decision
4.5	Switching to control voltages	Appendix B Revenue Cap decision
4.6	Fault-level mitigation works	Appendix B Revenue Cap decision
4.7	Shunt reactors	Final determination p. 184
	Exclude from 'circuit availability (intermediate critical)' any outages of shunt reactors	
Parameter 5- Intermediate non-critical availability		
Defined exclusions	Further description of exclusion	Reference
5.1	Unregulated transmission assets	Appendix B Revenue Cap decision
5.2	Connection assets	Appendix B Revenue Cap decision
5.3	Third party outage	Appendix B Revenue Cap decision and as submitted by SP AusNet
	Exclude from 'circuit unavailability' any outages shown to be caused by a fault or other event on a third party system e.g. intertrip signal, generator outage, customer installation; or by direction by fire services (eg. MFB, CFA or DSE Bushfire Incident Co-ordinator). Exclude an outage requested by AEMO except if SP AusNet 'causes' the outage through an act or omission. Exclude co-incident outages for a generator or HV direct connect customer defined as: - Planned outages requested by the Generator or HV Customer on their dedicated line (eg. APD at Portland or JLA Bluescope Steel at Tyabb or Alcoa point Henry Geelong). - Outages co-ordinated with the shutdown of the Generator or HV customers equipment such that the customer does not require system normal network reliability or transfer capability through the high voltage grid and the outage does not affect the supply of any other person who is connected to the high voltage grid. - Faults on the dedicated line caused by faults in the Generator or HV customer installation.	
5.4	Force majeure	Appendix B Revenue Cap decision
5.5	Switching to control voltages	Appendix B Revenue Cap decision
5.6	Fault-level mitigation works	Appendix B Revenue Cap decision
5.7	Shunt reactors	Final determination p. 184
	Exclude from 'circuit availability (intermediate non-critical)' any outages of shunt reactors	
Parameter 6- Loss of supply event frequency (>0.05min)		
Defined exclusions	Further description of exclusion	Reference
6.1	Unregulated transmission assets	Appendix B Revenue Cap decision
6.3	Third party outage	Appendix B Revenue Cap decision
6.4	Force majeure	Appendix B Revenue Cap decision
6.5	Successful reclose events (<1 min duration)	Appendix B Revenue Cap decision
6.6	Planned outages	Appendix B Revenue Cap decision
	Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage, or customer installation	
Parameter 7- Loss of supply event frequency (>0.3min)		
Defined exclusions	Further description of exclusion	Reference
7.1	Unregulated transmission assets	Appendix B Revenue Cap decision
7.3	Third party outage	Appendix B Revenue Cap decision
7.4	Force majeure	Appendix B Revenue Cap decision
7.5	Successful reclose events (<1 min duration)	Appendix B Revenue Cap decision
7.6	Planned outages	Appendix B Revenue Cap decision
	Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage, or customer installation	
Parameter 8- Average outage durations (lines)		
Defined exclusions	Further description of exclusion	Reference
8.1	Unregulated transmission assets	
8.3	Third party outage	Historical exclusion applied by SP AusNet
8.4	Force majeure	Appendix B Revenue Cap decision

8.5	Momentary interruptions (<1 min duration)		Appendix B Revenue Cap decision
8.6	Planned outages		Appendix B Revenue Cap decision
Parameter 9 - Average outage duration (transformers)			
	Defined exclusions	Further description of exclusion	Reference
9.1	Unregulated transmission assets		
9.3	Third party outage	Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage, or customer installation	Historical exclusion applied by SP AusNet
9.4	Force majeure		Appendix B Revenue Cap decision
9.5	Momentary interruptions (<1 min duration)		Appendix B Revenue Cap decision
9.6	Planned outages		Appendix B Revenue Cap decision

Service Target Performance Incentive Scheme - Definition of Force Majeure

Definition of Force Majeure	Reference
<p>For the purpose of applying the <i>service target performance incentive scheme</i>, force majeure events means any event, act or circumstance or combination of events, acts and circumstances which (despite the observance of good electricity industry practice) is beyond the reasonable control of the part affected by any such event, which may include, without limitation, the following:</p> <ul style="list-style-type: none">- 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.- action or inaction by a court, government agency (including denial, refusal or failure to grant any authorisation, despite timely best endeavour to obtain same)- strikes, lockouts, industrial and/or labour disputes and/or difficulties, work bans, blockades, 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 <p>In determining what force majeure events should be excluded the AER will consider the following:</p> <ul style="list-style-type: none">- 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?	Service Target Performance Incentive Scheme (January 2007) p. 31