

ElectraNet's TNSP Economic Benchmarking Data Templates Estimate Information

5. Operational data worksheet

	Regulatory year		2006	2007	2008	200	201	0 201	1 201	2 20
artable_Code	Variable	Units								
al rabile Loose	Table 5.1 Energy delivery	2000								
	Energy Grouping by Downstream Connection type									
	FILE BY GLOSPILE BY DOMINICOM COMMERCION - 17-									
	To Other connected transmission networks	GWh								
OPED0101			2,530	882	-24	18	58	51		
DPED0102	To Distribution networks	GWh	11,369	11,689	11,781	11,79	11,97	4 11,70		
OPED0103	To Directly connected end-users (please specify voltages)	GWh	1,182	1,418	1,324	1,53				
PED01	Total energy transported	GWh	15,101	13,990	13,083	13,51	13,84	17 13,88	2 14,06	3 14.2
	Table 5,2 Connection point numbers									
	Number of entry points at each transmission voltage level								_	
OPCP0101	275kV		7.	2	7			10		0
OPCP0102	132 kV		9	9	10	1	1 1	1 1	1 1	1
OPCP0103	66 kV		3	1			3	3)]	3
	Number of exit points at each transmission voltage level									
OPCP0201	275kV		11	11						4
OPCP0202	132 kV		56	56	57	5	7	58 5	9 4	0
OPCP0203	66 kV		. 5	5	1 5		5]	5	5	51
	Table 5.3 System demand									
	Table 5.3.1 Annual system maximum demand characteristics – MW measure			- Investment						
PSD0101	Transmission System coincident maximum demand	MW	2717	2707	2940	317	8 105	5 316	280	8 2
DPSD0102	Transmission System coincident weather adjusted maximum demand 10% POE	MW								
DPSD0103	Transmission System coincident weather adjusted maximum demand 50% POE	MW								
DPSD0104	Transmission System non-coincident summated maximum demand	MW	3648	3712	4001	410	3 407	420	404	2 4
	Transmission System non-coincident weather adjusted summated maximum demand 10%	MW								
OPSD0105	POE	MW								
	Transmission System non-coincident weather adjusted summated maximum demand 50%	MW								
DPSD0106	POE	MW								
	Table 5.3.2 Annual system maximum demand characteristics MVA measure									_
OPSD0201	Transmission System coincident maximum demand	MVA	2839	3097	312	334	6 32	72 128	2 291	5 3
OP500202	Transmission System coincident weather adjusted maximum demand 10% POE	MVA	111000							
OPS00203	Transmission System coincident weather adjusted maximum demand 50% POE	MVA								
OPSD0204	Transmission System non-coincident summated maximum demand	MVA	3978	1976	422	A26	5 422	437	422	9 4
0.50050,	Transmission System non-coincident weather adjusted summated maximum demand 10%									
OPSD0205	POE	MVA								
01300203	Transmission System non-coincident weather adjusted summated maximum demand 50%									
DP5D0206	POE	MVA								
	Table 5.3.3 Power factor									
	Power factor conversion between MVA and MW									
PSD0301	Average overall network power factor conversion between MVA and MW	Factor	0.9920 feading	0.9891 leading	0.9766 leading	0.9797 leading	0.9821 feading	0.9787 leading	0.9829 learning	0.9285 feating
PSD0302	Average power factor conversion for 500 kV lines	Factor	NA	NA.	NA	NA	NA	NA	MA	NA.
PSD0303	Average power factor conversion for 130 kV lines	Factor	16A	NA .	NA	NA	MA	NA:	NA	NA.
PSD0304	Average power factor conversion for 275 kV lines	Factor	0.9656 lagging	0.9916 leading	0.9892 leading	0.9897 leading	0.9923 leading	0.9919 teading	0.9999 lagging	0,9886 feading
OPSD0305	Average power factor conversion for 220 kV lines	Factor	MA	NA .	NA.	NA	NA.	NA	HA	NA
OPSD0306	Average power factor conversion for 132 kV lines	Factor	0.9762 teading	0.9836 feading	0.9677 leading	0.9718 leading	0.9749 leading	0.9675 leading	0.9710 leading	0.9540 learning
		Factor		0.9693 lugging	0.9785 leading	0.9884 leading	0.9834 leading	0.9939 lagging	0.9872 leading	0.9386 tagging
PSD0307	Ayerage power factor conversion for 66 kV lines									



6. Physical assets worksheet

			2006	2007	2008	2009	2010	2011	2012	2013
ariable Code	Regulatory year Variable	Unit	20001	2007	20001	2007	247-1	2000		
ariable_code	Table 6.1 Transmission System Capacities Variables									
	Table 6.1.1 Overhead network length of circuit at each voltage									
PA0101	500 kV	km	0	0	ol	.0	0	0	0	- 0
PA0102	330 kV	km	0	0	0	0	0	0	0	0
PA0103	275 kV	km	2608	2608	2608	2608	2608	2608	2611	2611
FPA0103	220 kV	krn	0	0	0	.0	0	0	0	
FPA0105	132 kV	km	2969	2886	2886	2871	2869	2872	2872	2873
FPA0105	66 kV	km	14.75	15.88	15.88	15.88	15.88	15,88	15.88	16.16
FPA0108	33 kV	km	0	0	0	0	0	0	0	(
FPAO108	(Add rows as required for other voltages here. For	each additional ro	w, specify the	voltage level a	nd add a vari	able code		- 2		
FPA0108	Total overhead circuit kilometres	km	5592	5510	5510	5495	5493	5496	5499	5500
IFAOI										
	Table 6.1.2 Underground cable circuit length at each voltage									
TPA0201	500 kV	km	0	0	o	0	0	0	0	- (
TPA0202	330 kV	km	0	0	0]	0	0	0	0	
TPA0203	275 kV	km	7.87	7.87	7,87	7.87	7.87	7.67	26.27	26.2
TPA0204	220 kV	km	0	ol	ol	0	0	0	0	
TPA0205	132 kV	km	0	0	ol	0	0	0	0	2.5
TPA0206	56 kV	km	0.919	0.919	0 919	0,919	0.919	0.919	0.919	0.91
TPA0207	73.61/	km	0	ol	ol	0	0	0	0	
TPA0208	[Add rows as required for other voltages here. For	r each additional ro	w, specify the	voltage level :	ind add a vari	able code			-	
TPA02	Total underground circuit kilometres	km	8.789	8.789	8.789	8,789	8.789	8.789	27.189	27.18
	12 PA PROPERTY AND									
	Table 6.1.3 Estimated overhead network weighted average MVA capacity by voltage class	SUMMER*								
TPA0301	500 kV	MVA	0	0	0	0	0	0	0]	
TPA0302	330 kV	MVA	0	0	0	0	0	0	0	
TPA0303	275 kV	MVA	550,6	565.8]	565.8	566,4	566.4	566.4	566.4	566.
TPA0304	220 kV	MVA	0	Ö	0	0	0	0	0	
TPA0305	132 kV	MVA	108.2	109.8	111.9	114,1	114.1	114.1	114.1	114
TPA0306	66 kV	MVA	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.
TPA0307	33 kV	MVA	0	0	0	0	0	0	0]	
TPA0308	[Add rows as required for other voltages here, Fo	r each additional ro	w, specify the	voltage level	and add a veri	able code;				
	Table 6,1.4 Estimated underground network weighted average MVA capacity by voltage class						- 41		- 01	
TPA0401	500 kV	MVA	0	0	0	0	0	0	0	(1)
TPA0402	330 kV	MVA	0	0	0	0	0	0	0	
TPA0403	275 kV	MVA	450.0	450.0	450.0	450.0	450.0	450.0	597.0	597
TPA0404	220 kV	MVA	0	0	0	0	0	-	0	
TPA0405	132 kV	MVA	0	0	0	0	0	0	0	-
TPA0406	66 kV	MVA	0	0	0	0	0	0	0	_
TPA0407	33 kV	MVA	0	0	0	0	0	0	01	
TPA0408	[Add rows as required for other voltages here. Fo	e each additional re	w, specify the	voltage level	and add a vari	latile code)			_	
	TO AN ADDITION TO AN ADDITION OF THE WAY AND									
	Table 6.1.5 Installed transmission system transformer capacity							2210	3400	344
TPA0501	Transmission substations (eg 500 kV to 330 kV)	MVA	3300	30801	3240	3240	3240	3240	6888	736
TPA0502	Terminal points to DNSP systems	MVA	5297	5230	5478	5798	5863	6263		
TPA0503	Transformer capacity for directly connected end-users owned by the TNSP	MVA	601.0	746.0	871,0	871.0	871.0	871.0	891.0	891
TPA0504	Transformer capacity for directly connected end-users owned by the end-user	MVA	4934	4934	5039	5182	5182	5542		554
TPA0505	Interconnector capacity	MVA	680	680	680	680	690	6B0	680]	68
TPA0506	[Add rows as required for other voltages here. For	r each additional re	ow, specify the	voltage level	and add a var	lable code)				
	Table 6.1,6 Cold spare capacity									
		MVA	268.5	40.0	222.6	492.6	462.6	462.6	462.6	717.



7. Quality of services worksheet

	Regulatory year		2006	2007	2008	2009	2010	2011	2012	2013
Variable_Code		Unit				-				
	Table 7.1 Service Component									
	Table 7.1.1 Service Parameter 1 – Average Circuit outage rate									
TQS0101	Lines outage rate - fault	per cent	41.1	26.2	26.9	20.4	41.7	25.7	43.6	29.7
TQS0102	Number of Lines fault outages	number	44	28	29	22	45	28	48	33
TQ50103	Number of defined Lines	number	107	107	108	108	108	109	110	111
TQ\$0104	Transformers outage rate - fault	per cent	20	14.5	15.1	11,6	17,2	8.6	11.2	11.1
TQS0105	Number of Transformer fault outages	number	25	18	19	15	23	12	16	16
TQS0106	Number of defined Transformers	number	125	124	126	129	134	139	143	144
TQS0107	Reactive plant outage rate - fault	per cent	50	23.1	42.3	30,8	25,9	46.2	28.6	30.3
TQS0108	Number of Reactive plant fault outages	number	13	6	11	8	7	12	8	10
TQS0109	Number of defined Reactive plant	number	26	26	26	26	27	26	28	33
TQS0110	Lines outage rate – forced outage	per cent	14	14	15.7	13	25,9	20.2	9.1	14.4
TQS0111	Number of Lines forced outages	number	15	15	17	14	28	22	10	16
TQS0112	Transformer outage rate – forced outage	per cent	8	5.6	4	7.8	9.7	2,2	8.4	0.7
TQS0113	Number of Transformers forced outages	number	10	7	5	10	13	3	12	1
TQS0114	Reactive plant outage rate – forced outage	per cent	11.5	26,9	88.5	7.7	114.8	23,1	10.7	36.4
TQS0115	Number of Reactive plant forced outages	number	-3	7	23	2	31	6	3	12
	Table 7.1.2 Service Parameter 2 – Loss of supply event frequency –									
	number in ranges specified									
	Number of events greater than (0,2 for 2003-08 and 0,05 for 2008-									
TQ50116	13) system minutes per annum	number	4	1	4	4	12	7	7	5
	Number of events greater than (1.0 for 2003-08 and 0.2 for 2008-13)									
TQS0117	system minutes per annum	number	0	0	1	2	6	1	5	4
	Table 7.1.3 Service Parameter 3 – Average outage duration		70							
TQ50118	Average outage duration	minutes	88.46	269.94	200.2	161.27	126.85	242:28	124.76	154.17
	Table 7.1.4 System Parameter 4 - Proper operation of equipment		10							
	- number of fallure events									
TQ50119	Failure of protection system	number	38	26	24	24	49	24	37	24
	Material failure of Supervisory Control and Data Acquisition (SCADA)	number								
TQ50120	system	number	4	2	13	2	5		2	2
TQS0121	Incorrect operational isolation of primary or secondary equipment	number	0	3	7	4	7	4	2	2
	Table 7.2 - Market Impact Component									
		Number of				10		- 1		
	Market Impact Parameter	dispatch								
TQS02		intervals	28385	10935	5548	3719	2259	1772	5325	2927
	7.3 System losses									
TQS03	System losses	per cent	2.21%	1.99%	1.73%	2.07%	2.19%	2.15%	2.16%	2.29%



8. Operating environment factors worksheets

			2006	2007	2008	2009.	2010	2011	2012	2013
	Regulatory year	Unit	2000	 2007	2000	2005/	2020			
Variable_Code	Variable	Onit								
TEF01	8.1 Terrain factors	N								
	Total number of vegetation maintenance spans	Number of								1494
TEF0101		spans				1,367	1.367	1.367	1.367	1.367
TEF0102	Average vegetation maintenance span cycle	Years				1,307	1,507	1,307	1.307	1.507
TEF0103	Average number of trees per vegetation maintenance span	Trees								12
	Average number of defects per vegetation maintenance	Defects					-			
TEF0104	span	Defects								7
		Number of								
TEF0105	Tropical proportion	spans								0
TEF0106	Standard vehicle access	km								4196
TEF0107	Altitude	km								10
		Number of								
TEF0108	Bushfire risk	spans			· ·					10918

1210100	
TEF02	8.2 Network characteristics
TEF0201	Route line length
TEF0202	Variability of dispatch
TEF0203	Concentrated load distance
TEF0204	Total number of spans
TEF03	8.3 Weather stations
TEF03001	ADELAIDE (BRIGHTON)
TEF03002	ADELAIDE (CLARENCE GARDENS BOWLING CLUB)
TEF03003	ADELAIDE (DRY CREEK SALTWORKS) ADELAIDE (GLEN OSMOND)
TEF03004 TEF03005	ADELAIDE (GORGE WEIR)
TEF03006	ADELAIDE (HOPE VALLEY RESERVOIR)
TEF03007	ADELAIDE (KENT TOWN ALERT)
TEF03008	ADELAIDE (KENT TOWN)
TEF03009	ADELAIDE (KESWICK)
TEF03010	ADELAIDE (MAGILL)
TEF03011	ADELAIDE (MORPHETT VALE)
TEF03012	ADELAIDE (MORPHETTVILLE RACECOURSE)
TEF03013	ADELAIDE (SAUSBURY BOWLING CLUB)
TEF03014	ADELAIDE (SALISBURY BOWLING CLUB) ADELAIDE (SEATON)
TEF03015 TEF03016	ADELAIDE (SOMERTON PARK)
TEF03017	ADELAIDE (TEA TREE GULLY COUNCIL)
TEF03018	ADELAIDE (TORRENS ISLAND)
TEF03019	ADELAIDE AIRPORT
TEF03020	ADELAIDE AIRPORT (ANEMOMETER NORTHEAST)
TEF03021	ADELAIDE AIRPORT (ANEMOMETER NORTHWEST
TEF03022	ADELAIDE AIRPORT (ANEMOMETER SOUTH WEST)
TEF03023	ADELAIDE AIRPORT ALERT
TEF03024	AGERY
TEF03025	ALAWOONA
TEF03026 TEF03027	ALAWOONA (SCHELLS WELL) ALDGATE
TEF03027	AMATA AIRSTRIP
TEF03029	AMERICAN RIVER
TEF03030	AMERICAN RIVER (REDBANKS)
TEF03031	ANDAMOOKA
TEF03032	ANGASTON
TEF03033	ANNA CREEK
TEF03034	APOINGA (WILIVERE)
TEF03035	APPILA
TEF03036	ARDROSSAN ARDROSSAN (MULARA)
TEF03037 TEF03038	ARDROSSAN (WODARA)
TEF03039	ARDROSSAN (WINULTA)
TEF03040	ARKAROOLA
TEF03041	ARNO BAY
TEF03042	ARTHURTON (LOWANDALE)
TEF03043	ASHTON
TEF03044	ASHTON CO-OP
TEF03045	ATHELSTONE (BLACK HILL)
TEF03046	AUBURN
TEF03047 TEF03048	AUSTRALIA PLAINS AVENUE (DOWNER)
TEF03048	BALAKLAVA
TEF03050	BALAKLAVA (DONALEEN)
TEF03051	BALAKLAVA (WANAPPE)
TEF03052	BALHANNAH (KILLARA PARK)
TEF03053	BALHANNAH CFS BASESTATION
TEF03054	BARMERA
TEF03055	BAROSSA VALLEY (DUCKPONDS CREEK)
TEF03056	BEACHPORT
TEF03057	BEAUMONT
TEF03058 TEF03059	BELAIR BELAIR (ST JOHNS)
TEF03059 TEF03060	BELAIR (STATE FLORA NURSERY)
TEF03060	BELLEVUE HEIGHTS
TEF03062	BELTANA ROADHOUSE
TEF03063	BELTANA STATION
TEF03064	BELTON (SHADOW VALE)
TEF03065	BERRI
TEF03066	BIMBOWRIE
TEF03067	BIRDWOOD BIRDWOOD
TEF03068	DINUVVOUD

km	4643	4555	4555
per cent	- 6	6	8
km	0	0	0
number	13638	13431	13428
	Post code	Suburb	Materiality
23001		BRIGHTON	Y
23093		CLARENCE GARDENS	Y
23079		DRY CREEK	Υ
23005		LINDEN PARK	Υ
23909		MONTACUTE	Υ
23096		HOPE VALLEY	Y
23056 23090		KENT TOWN KENT TOWN	Y
23090		KESWICK	Y
23132		MAGILL	Υ
23732	5162	MORPHETT VALE	Υ
23098	5043	MORPHETTVILLE	Υ
23026	5095	POORAKA	Υ
23023		SALISBURY	Y
23024		SEATON	Y
23121		SOMERTON PARK	Y
23748 23018		TORRENS ISLAND	Y
23034		ADELAIDE AIRPORT	Y
23123		ADELAIDE AIRPORT	Ÿ
23124		ADELAIDE AIRPORT	Υ
23109	5950	ADELAIDE AIRPORT	Y
23055		ADELAIDE AIRPORT	Y
22057	-	AGERY	Υ
25000		ALAWOONA	N
25018		ALAWOONA ALDGATE	N
23817 16008		NIL	N
22800		AMERICAN RIVER	N
22831		NEPEAN BAY	N
16065	5722	ANDAMOOKA	Υ
23300	5353	ANGASTON	Υ
17004		ANNA CREEK	N
21121		APOINGA	Υ
19001		APPILA	Y
22000		ARDROSSAN SANDILANDS	Y
22032		ARDROSSAN	Y
22021		WINULTA	Y
17099		ARKAROOLA VILLAGE	N
18001	5603	ARNO BAY	Υ
22039		MAITLAND	Y
23867		ASHTON	Y
23803		ASHTON	Y
23896		ATHELSTONE	Y
21001 24501		AUBURN AUSTRALIA PLAINS	Y
26078		AVENUE RANGE	Y
21007		BALAKLAVA	Y
23128		SALTER SPRINGS	Υ
21104	5453	STOW	Υ
2378		BALHANNAH	Υ
23918		BALHANNAH	Y
2400		BARMERA	Y
2337		STOCKWELL BEACHPORT	Y
26000		BEAUMONT	Y
2384		BELAIR	Y
23890		BELAIR	Y
23704		BELAIR	Υ
2391		BELLEVUE HEIGHTS	Υ
1711		BELTANA STATION	Υ
1701		BELTANA STATION	Y
1900		BELTON	N
2402		BERRI	Y N
	JI 5440	BIMBOWRIE	14
2000		FORRESTON	Y

4538 17

4542



TEF03069	BIRDWOOD (MCVITTIES HILL)	23786	5234	BIRDWOOD	Y
TEF03070	BISCUIT FLAT (WOOLMIT)	26030		REEDY CREEK	Y
TEF03071	BLACK HILL	24502		BLACK HILL	Υ
TEF03072	BLACKWOOD (WITTUNGA)	23839	5050	BLACKWOOD	Υ
EF03073	BLANCHETOWN (WYN-MOOR)	25056	5357	NOTTS WELL	Υ
EF03074	BLANCHETOWN LOCK 1	24564	5357	BLANCHETOWN	Υ
EF03075	BLINMAN	17014	5730	BLINMAN	Υ
EF03076	BLINMAN (ANGORICHINA)	17097	5730	ANGORIGINA	Y
EF03077	BLINMAN (MOOLOOLOO)	17032	5710	MOOLOOLOO	Y
EF03078	BLINMAN (NARRINA)	17041	5710	NARRINA	N
EF03079	BLINMAN (WIRREALPA)	17054	5730	WIRREALPA	N
F03080	BLYTH	21003	5462	BLYTH	Υ
F03081	BOLIVAR TREATMENT WORKS	23081	5110	BOLIVAR	Y
EF03082	BON BON	16041	5710	BON BON	N
EF03083	BOOBOROWIE	21004		BOOBOROWIE	Y
EF03084	BOOL LAGOON (LOCKSLEY FARM)	26103		BOOL LAGOON	Y
EF03085	BOOLCOOMATTA	20001		BOOLCOOMATTA	N
EF03086	BOOLEROO CENTRE	19006		BOOLEROO CENTRE	Y
EF03087	BOOLEROO CENTRE (WILLOWIE)	19047		WILLOWIE	Y
EF03088	BOOLEROO WHIM (CALLUM BRAE)	19116		BOOLEROO CENTRE	Y
EF03089	BORDERTOWN (BEEAMMA SECTION 95)	26058		WESTERN FLAT	Y.
	BORDERTOWN (INGLEWOOD)	25525		SENIOR	Y
EF03090		26037		WESTERN FLAT	Y
EF03091	BORDERTOWN (YACCA VALE)	0000000			
EF03092	BORDERTOWN INDUSTRIAL ESTATE	25560		BORDERTOWN	Y
EF03093	BOWER	24504		BOWER	Y
EF03094	BOWHILL	25040		BOWHILL	Y
EF03095	BOWILLIA	21106		BOWILLIA	Υ
EF03096	BOWMANS (PIGELDEE)	21112		BOWMANS	Y
EF03097	BRAEMAR	20043	5440	FARAWAY HILL	N
EF03098	BRIDGEWATER	23707	5155	BRIDGEWATER	Y
EF03099	BRINKWORTH	21007	5464	BRINKWORTH	Y
EF03100	BRINKWORTH (ANAMA PARK)	21000	5464		Y
EF03101	BRINKWORTH (BUNGAREE)	21010		BUNGAREE	Υ
EF03101	BROUGHAMS GATE HOUSE (QUINYAMBIE)	17106		QUINYAMBIE	N
	BROWNHILL CREEK (SCOTCH COLLEGE)	23105		MITCHAM	Y
EF03103		19008		BRUCE	Y
EF03104	BRUCE	-			Y
EF03105	BUCKLAND PARK (ADELAIDE-S1-RADAR)	23130		MIDDLE BEACH	
EF03106	BUCKLEBOO (HI-VIEW)	18172		BUCKLEBOO	Y
EF03107	BUCKLEBOO (KARINYA)	18190		BUCKLEBOO	N
EF03108	BULGUNNIA	16003		BULGUNNIA	N
EF03109	BURNSIDE	23042	5066	BURNSIDE	Y
EF03110	BURRA (BILLABONG)	21136	5418	BURRA	Y
EF03111	BURRA (LEIGHTON)	21100	5417	LEIGHTON	Υ
EF03112	BURRA (POONUNDA)	21041	5418	MONGOLATA	Y
EF03113	BURRA (WORLDS END)	21086	5374	WORLDS END	Y
EF03114	BURRA COMMUNITY SCHOOL	21077	5417	BURRA	Y
EF03115	BUTE	21012		BUTE	Y
EF03116	BUTLER (MOODY VALE)	18175		MOODY	Υ
EF03117	BUTLER TANKS (NORTH PARNDA)	18049		BUTLER	Υ
		16093		ARCKARINGA	N
EF03118	CADNEY PARK (ARCKARINGA STATION)			CALIPH	N
EF03119	CALIPH	25050			Y
EF03120	CALLINGTON	24508		CALLINGTON	
EF03121	CALLINGTON HILL	24551		MONARTO	Y
EF03122	CALTOWIE	21013		CALTOWIE	Υ
EF03123	CAMBRAI (KONGOLIA)	24513		CAMBRAI	Y
EF03124	CAMERON CORNER (LINDON)	17115		LINDON	N
EF03125	CAPE BORDA	22823		CAPE BORDA	N
EF03126	CAPE CASSINI WILDERNESS RETREAT	22842	5223	CASSINI	N
EF03127	CAPE JAFFA (THE LIMESTONE)	26095	5275	CAPE JAFFA	Υ
TEF03128	CAPE WILLOUGHBY	22803	.5222	WILLOUGHBY	N
EF03129	CARRIETON	19009	5432	CARRIETON	Y
TEF03130	CARRIETON (EURELIA)	19013		EURELIA	Υ
EF03131	CARRIETON (GLENROY ESTATE)	19098	5432	BELTON	N
EF03132	CASTAMBUL (SIXTH CREEK)	23852		CASTAMBUL	Y
EF03133	CEDUNA (GOODE)	18033		WANDANA	N
	· · · · · · · · · · · · · · · · · · ·	18047		MALTEE	N
EF03134	CEDUNA (MALTEE)	() () () () () ()		PENONG	N
EF03135	CEDUNA (THEVENARD NTC AWS)	18218 18207 N		NIL	N
EF03136	CEDUNA (THEVENARD NTC AWS)			UWORRA	N
EF03137	CEDUNA (UWORRA)	18182		CEDUNA	N
EF03138	CEDUNA AMO	18012			
EF03139	CEDUNA OBSERVATORY	18223		WANDANA	N
EF03140	CHARLESTON	23907		CHARLESTON	Y
EF03141	CHERRY GARDENS	23709		CHERRY GARDENS	Y
EF03142	CLARE	21129		CLARE	Y
EF03143	CLARE (CALCANNIA)	21075		BARINIA	Y
EF03144	CLARE (HILL RIVER)	21025		HILL RIVER	Υ
EF03145	CLARE (NEAGLES ROCK)	21135		CLARE	Y
EF03146	CLARE HIGH SCHOOL	21131		CLARE	Y
EF03147	CLARE SES BASESTATION	21107		CLARE	Y
EF03148	CLARENDON	23710		CLARENDON	Y
EF03149	CLEVE	18014	5640	CLEVE	Υ
EF03150	CLEVE (HEGGATON)	18198	5602	MANGALO	Y
EF03151	CLEVE (NINGANA)	18184		CAMPOONA	Υ
EF03152	CLEVE (PINEVIEW)	18096		COWELL	Y
EF03153	CLEVE AERODROME	18116		CLEVE	Y
		17016		CLIFTON HILLS STATION	N
EF03154	CLIFTON HILLS	21000000			N
EF03155	COCKBURN	20002		COCKBURN	
EF03156	COCKBURN (TEPCO)	20053		TEPCO STATION	N
TEF03157	COFFIN BAY	18188		COFFIN BAY	Y
EF03158	COMMODORE	17017		FLINDERS RANGES	Υ
EF03159	CONCORDIA (TURRETFIELD DAM)	23141	5352	KINGSFORD	Y
EF03160	COOBER PEDY	16007	5723	COOBER PEDY	N
EF03161	COOBER PEDY (MCDOUALL PEAK)	16027	5710	MCDOUALL PEAK	N
	COOBER PEDY AIRPORT	16090	5723	COOBER PEDY	N
EF03162	COOBERTEDTAIN ON				
TEF03162 TEF03163	COOK	18110	5710	NULLARBOR	N



WEEDON OF		COOKE DI AINIS (WANDADA)	25555	5064	A CLUB WILL	Tv
TEF03165		COOKE PLAINS (KANBARA)	25555		ASHVILLE	Y
TEF03166		COOMANDOOK	25503		COOMANDOOK	Υ
TEF03167		COONALPYN	25504	5265	COONALPYN	Υ
TEF03168		COONAWARRA	26091	5277	COONAWARRA	Y
TEF03169		COONDAMBO	16009	5710	COONDAMBO	N
TEF03170		COPEVILLE (FILSELL FLAT)	25057		COPEVILLE	N
TEF03171		COPPER HILL STATION	16094		EVELYN DOWNS	N
TEF03172		CORDILLO DOWNS	17019		CORDILLO DOWNS	N
			22002			N
TEF03173		CORNY POINT			CORNY POINT	
TEF03174		COULTA	18019		COULTA	Y
TEF03175		COULTA (COLES POINT)	18191		COULTA	Y
TEF03176		COURELA (LINDARNOE)	18162	5661	PETINA	N
TEF03177		COWELL	18022	5602	COWELL	Y
TEF03178		COWELL (WINTER SPRINGS)	18176	5602	MILTALIE	Y
TEF03179		CRADOCK	19010		CRADOCK	Y
TEF03180		CRADOCK (SLATY CREEK)	19109		CRADOCK	Y
					CRADOCK	N
TEF03181		CRADOCK (YEDNALUE)	19061			
TEF03182		CRAFERS (MT LOFTY)	23901		CRAFERS	Y
TEF03183		CRAFERS WEST	23873	5152	CRAFERS WEST	Y
TEF03184		CRAIGBURN FARM (STURT DAM)	23136	5051	CRAIGBURN FARM	Υ
TEF03185		CROMER ROAD	23881	5235	MOUNT PLEASANT	Y
TEF03186		CRYSTAL BROOK	21016	5523	CRYSTAL BROOK	Υ
TEF03187		CRYSTAL BROOK SECTION 299	21102	5523	WANDEARAH EAST	Y
TEF03188		CUDLEE CREEK (MILLBROOK)	23731		MILLBROOK	Y
			23879		CUDLEE CREEK	Y
TEF03189		CUDLEE CREEK (O'DEAS ROAD)				
TEF03190		CUMMINS	18023		CUMMINS	У
TEF03191		CUMMINS AERO	18217		CUMMINS	Y
TEF03192		CURNOMONA (CURNAMONA)	20004	5440	CURNAMONA	N
TEF03193		CURRAMULKA	22003	5580	CURRAMULKA	Υ
TEF03194		CURRAMULKA NORTH	22055		CURRAMULKA	Y
TEF03195		DARKE PEAK	18024		DARKE PEAK	Y
						Y
TEF03196		DAWSON (ANDA-VALE)	19014		DAWSON	
TEF03197		DRY CREEK (WINGFIELD)	23138		DRY CREEK	Y
TEF03198		DUFFIELD RAMCO	24031		STOCKYARD PLAIN	Υ.
TEF03199		DUTTON	24509	5356	DUTTON	Y
TEF03200		ECHUNGA	23903		ECHUNGA	Y
TEF03201		ECHUNGA GOLF COURSE	23713		ECHUNGA	Y
TEF03202		EDEN VALLEY (MT ADAM)	23902		FLAXMAN VALLEY	Y
						Y
TEF03203		EDEOWIE	19113		FLINDERS RANGES	
TEF03204		EDINBURGH RAAF	23083		EDINBURGH	Y
TEF03205		EDITHBURGH	22046	5583	SULTANA POINT	Y
TEF03206		ELLISTON	18069	5670	ELLISTON	N
TEF03207		ELLISTON (LAMBING STATION)	18189	5607	KAPPAWANTA	N
TEF03208		ELLISTON (OAKLANDS)	18213		BRAMFIELD	N
		ELLISTON (THREE LAKES)	18204		ELLISTON	N
TEF03209		·				
TEF03210		ERNABELLA (PUKATJA)	16097		NIL	N
TEF03211		ERUDINA	20005		ERUDINA	N
TEF03212		EUDUNDA	24511	5374	EUDUNDA	Y
TEF03213		EUDUNDA (MOONDAH)	24555	5374	HANSBOROUGH	Y
TEF03214		EVELYN DOWNS	16107	5734	EVELYN DOWNS	N
TEF03215		FARRELL FLAT	21019		FARRELL FLAT	Y
					FELIXSTOW	Y
TEF03216		FELIXSTOW (PAYNEHAM)	23101			
TEF03217		FINNISS	23714		FINNISS	Y
TEF03218		FLINDERS CHASE (ROCKY RIVER)	22817		FLINDERS CHASE	N
TEF03219		FRANCES	26007	5262	FRANCES	Y
TEF03220		FREELING	23325	5372	FREELING	Y
TEF03221		FROME DOWNS	20006	5710	FROME DOWNS	N
TEF03222		FURNER (KENNION SECTION 235)	26086		FURNER	Y
TEF03223		FURNER (WOOMERA HOMESTEAD)	26101		FURNER	Y
						N
TEF03224		GALGA	25004		GALGA	
TEF03225		GAMMON RANGES (ARCOONA BLUFF)	17049		GAMMON RANGES	N
TEF03226		GAMMON RANGES (BALCANOONA)	17010	-	GAMMON RANGES	N
TEF03227		GAMMON RANGES (MOOLAWATANA)	17131	5731	MOOLAWATANA	N
TEF03228		GAMMON RANGES (THE PLATEAU)	17103	5710	GAMMON RANGES	N
TEF03229		GAMMON RANGES (WERTALOONA)	17052		WERTALOONA	N
TEF03230		GAMMON RANGES (WOOLTANA)	17056		WOOLTANA	N
TEF03231		GAWLER	23107		GAWLER WEST	Y
TEF03232		GAWLER COUNCIL DEPOT	23078	-	WILLASTON	Y
		GAWLER RIVER (HEASLIP ROAD)			ANGLE VALE	Y
TEF03233		,	23111	-		_
TEF03234		GEORGETOWN	21020		GEORGETOWN	Y
TEF03235	77	GERANIUM	25506		GERANIUM	Y
TEF03236		GLADSTONE	21021		GLADSTONE	Y
TEF03237		GLENDAMBO	16084	5710	GLENDAMBO	N
		GLUEPOT RESERVE (GLUEPOT)	20028		GLUEPOT	Y
TEF03238		GOOLWA BARRAGE	23825		GOOLWA SOUTH	Y
TEF03238 TEF03239		GOOLWA COUNCIL DEPOT	23718		GOOLWA	Y
TEF03239		GOOLWA COUNCIL DEFOT	23/18	5214	GOULD CREEK	Y
TEF03239 TEF03240				F	USE HELL CERFFE	
TEF03239 TEF03240 TEF03241		GOULD CREEK (HERMITAGE)	23858			
TEF03239 TEF03240 TEF03241 TEF03242		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR)	23915	5114	GOULD CREEK	Y
TEF03239 TEF03240 TEF03241		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU)	23915 16103	5114 NIL	GOULD CREEK NIL	Y N
TEF03239 TEF03240 TEF03241 TEF03242		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR)	23915	5114 NIL	GOULD CREEK	Y
TEF03239 TEF03240 TEF03241 TEF03242 TEF03243		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU)	23915 16103	5114 NIL NIL	GOULD CREEK NIL	Y N
TEF03239 TEF03240 TEF03241 TEF03242 TEF03243 TEF03244		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (LENNY'S TREE) GREAT VICTORIA DESERT (SHOTLINE)	23915 16103 16101 16102	5114 NIL NIL NIL	GOULD CREEK NIL NIL	N N
TEF03239 TEF03240 TEF03241 TEF03242 TEF03243 TEF03244 TEF03245 TEF03246		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (HENNY'S TREE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL)	23915 16103 16101 16102 16104	5114 NIL NIL NIL NIL	GOULD CREEK NIL NIL NIL	N N N
TEF03239 TEF03240 TEF03241 TEF03242 TEF03243 TEF03244 TEF03245 TEF03246 TEF03247		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (LENNY'S TREE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL) GREENACRES	23915 16103 16101 16102 16104 23133	5114 NIL NIL NIL NIL 5086	GOULD CREEK NIL NIL NIL NIL NIL GREENACRES	N N N N
TEF03239 TEF03240 TEF03241 TEF03242 TEF03243 TEF03244 TEF03245 TEF03246 TEF03247 TEF03248		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (LENNY'S TREE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL) GREENACRES GREENOCK	23915 16103 16101 16102 16104 23133 23305	5114 NIL NIL NIL NIL 5086 5360	GOULD CREEK NIL NIL NIL NIL NIL GREENACRES GREENOCK	Y N N N N Y
TEF03239 TEF03240 TEF03241 TEF03242 TEF03243 TEF03244 TEF03245 TEF03246 TEF03247 TEF03248 TEF03249		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (LENNY'S TREE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL) GREENACRES GREENACRES GREENOCK GREENOCK	23915 16103 16101 16102 16104 23133 23305 23369	5114 NIL NIL NIL NIL 5086 5360	GOULD CREEK NIL NIL NIL NIL GREENACRES GREENOCK GREENOCK	Y N N N N Y Y Y
TEF03239 TEF03240 TEF03241 TEF03242 TEF03243 TEF03244 TEF03245 TEF03246 TEF03247 TEF03248		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (LENNY'S TREE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL) GREENACRES GREENOCK	23915 16103 16101 16102 16104 23133 23305	5114 NIL NIL NIL NIL 5086 5360	GOULD CREEK NIL NIL NIL NIL NIL GREENACRES GREENOCK	Y N N N N Y Y Y Y
TEF03239 TEF03240 TEF03241 TEF03242 TEF03243 TEF03244 TEF03245 TEF03246 TEF03247 TEF03248 TEF03249		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (LENNY'S TREE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL) GREENACRES GREENACRES GREENOCK GREENOCK	23915 16103 16101 16102 16104 23133 23305 23369	5114 NIL NIL NIL S086 5360 5360 5272	GOULD CREEK NIL NIL NIL NIL GREENACRES GREENOCK GREENOCK	Y N N N N Y Y Y
TEF03239 TEF03240 TEF03241 TEF03242 TEF03243 TEF03245 TEF03245 TEF03246 TEF03247 TEF03248 TEF03249 TEF03250		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (LENNY'S TREE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL) GREENACRES GREENOCK GREENWAYS (CORTINA)	23915 16103 16101 16102 16104 23133 23305 23369 26114	5114 NIL NIL NIL 5086 5360 5360 5272 5470	GOULD CREEK NIL NIL NIL GREENACRES GREENOCK GREENOCK GREENWAYS	Y N N N N Y Y Y Y
TEF03239 TEF03240 TEF03241 TEF03243 TEF03244 TEF03245 TEF03246 TEF03247 TEF03247 TEF03248 TEF03249 TEF03250 TEF03250		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (HENNY'S TREE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL) GREENACRES GREENOCK GREENOCK GREENOCK GREENWAYS (CORTINA) GULINARE GUMERACHA	23915 16103 16101 16102 16104 23133 23305 23369 26114 21022 23719	5114 NIL NIL NIL 5086 5360 5360 5272 5470 5233	GOULD CREEK NIL NIL NIL GREENACRES GREENOCK GREENOCK GREENOCK GREENWAYS GULNARE GUMERACHA	Y N N N N Y Y Y Y Y
TEF03239 TEF03240 TEF03241 TEF03242 TEF03243 TEF03244 TEF03245 TEF03246 TEF03247 TEF03248 TEF03249 TEF03250 TEF03251 TEF03252 TEF03253		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (ENNY'S TREE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL) GREENACRES GREENOCK GREENOCK GREENWAYS (CORTINA) GULNARE GUMERACHA HAHNDORF	23915 16103 16101 16102 16104 23133 23305 23369 26114 21022 23719	5114 NIL NIL NIL 5086 5360 5360 5272 5470 5233 5245	GOULD CREEK NIL NIL NIL NIL GREENACRES GREENOCK GREENOCK GREENWAYS GULNARE GUMERACHA HAHNDORF	Y N N N N N N N N N N N N N N N N N N N
TEF03239 TEF03240 TEF03241 TEF03242 TEF03244 TEF03245 TEF03247 TEF03246 TEF03246 TEF03248 TEF03249 TEF03252 TEF03253 TEF03251 TEF03253		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (ENNY'S TREE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL) GREENACRES GREENOCK GREENOCK GREENWAYS (CORTINA) GULMARE GUMERACHA HAHNDORF HALBURY ROAD, SALISBURY (HALBURY ROAD)	23915 16103 16101 16102 16104 23133 23305 23306 26114 21022 23719 23720 23043	5114 NIL NIL NIL 5086 5360 5272 5470 5233 5245 5108	GOULD CREEK NIL NIL NIL NIL GREENACRES GREENOCK GREENOCK GREENWAYS GULNARE GUMERACHA HAHNDORF PARALOWIE	Y N N N N N Y Y Y Y Y Y Y Y Y Y Y Y Y Y
TEF03239 TEF03240 TEF03241 TEF03242 TEF03243 TEF03245 TEF03246 TEF03247 TEF03246 TEF03247 TEF03248 TEF03252 TEF03253 TEF03252 TEF03252 TEF03255		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL) GREENACRES GREENOCK GREENOCK GREENWAYS (CORTINA) GULNARE GUMBRACHA HAHNDORF HALBURY ROAD, SALISBURY (HALBURY ROAD) HALLETT	23915 16103 16101 16102 16104 23133 23305 26114 21022 23719 23720 23043 21023	5114 NIL NIL NIL S086 5360 5360 5272 5470 5233 5245 5108	GOULD CREEK NIL NIL NIL NIL GREENACRES GREENOCK GREENOCK GREENWAYS GULNARE GUMERACHA HANDORF PARALOWIE HALLETT	Y N N N N N N N N N N N N N N N N N N N
TEF03239 TEF03240 TEF03241 TEF03242 TEF03244 TEF03245 TEF03247 TEF03246 TEF03246 TEF03247 TEF03247 TEF03252 TEF03253 TEF03253 TEF03253		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (ENNY'S TREE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL) GREENACRES GREENACRES GREENOCK GREENOCK GREENWAYS (CORTINA) GULINARE GUMERACHA HAHNDORF HALBURY ROAD, SALISBURY (HALBURY ROAD) HALLETT HALLETT (ASHROSE)	23915 16103 16101 16102 16104 23133 23305 23369 26114 21022 23719 23720 23043 21023	5114 NIL NIL NIL S086 5360 5272 5470 5233 5245 5108 5419	GOULD CREEK NIL NIL NIL NIL SREENACRES GREENOCK GREENOCK GREENWAYS GULNARE GUMERACHA HAHNDORF PARALOWIE HALLETT WILLALO	Y N N N N N N N N N N N N N N N N N N N
TEF03239 TEF03240 TEF03241 TEF03242 TEF03243 TEF03245 TEF03246 TEF03247 TEF03246 TEF03247 TEF03246 TEF03250 TEF03251 TEF03252 TEF03253 TEF03253 TEF03255		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL) GREENACRES GREENOCK GREENOCK GREENWAYS (CORTINA) GULNARE GUMBRACHA HAHNDORF HALBURY ROAD, SALISBURY (HALBURY ROAD) HALLETT	23915 16103 16101 16102 16104 23133 23305 26114 21022 23719 23720 23043 21023	5114 NIL NIL NIL S086 5360 5272 5470 5233 5245 5108 5419	GOULD CREEK NIL NIL NIL NIL GREENACRES GREENOCK GREENOCK GREENWAYS GULNARE GUMERACHA HANDORF PARALOWIE HALLETT	Y N N N N N N N N N N N N N N N N N N N
TEF03239 TEF03240 TEF03241 TEF03242 TEF03243 TEF03245 TEF03245 TEF03246 TEF03247 TEF03246 TEF03251 TEF03252 TEF03252 TEF03253 TEF03255 TEF03255		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (ENNY'S TREE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL) GREENACRES GREENACRES GREENOCK GREENOCK GREENWAYS (CORTINA) GULINARE GUMERACHA HAHNDORF HALBURY ROAD, SALISBURY (HALBURY ROAD) HALLETT HALLETT (ASHROSE)	23915 16103 16101 16102 16104 23133 23305 23369 26114 21022 23719 23720 23043 21023	5114 NIL NIL NIL NIL S086 5360 5360 5360 5360 5360 5470 5233 5245 5108 5419 5419	GOULD CREEK NIL NIL NIL NIL SREENACRES GREENOCK GREENOCK GREENWAYS GULNARE GUMERACHA HAHNDORF PARALOWIE HALLETT WILLALO	Y N N N N N N N N N N N N N N N N N N N
TEF03239 TEF03240 TEF03241 TEF03242 TEF03245 TEF03246 TEF03246 TEF03246 TEF03247 TEF03248 TEF03252 TEF03251 TEF03251 TEF03255 TEF03255 TEF03255 TEF03255 TEF03255 TEF03255		GOULD CREEK (HERMITAGE) GOULD CREEK (LITTLE PARA RESERVOIR) GREAT VICTORIA DESERT (EMU) GREAT VICTORIA DESERT (ENNY'S TREE) GREAT VICTORIA DESERT (SHOTLINE) GREAT VICTORIA DESERT (TALLARINGA WELL) GREENACRES GREENOCK GREENOCK GREENOCK GREENWAYS (CORTINA) GULNARE GUMERACHA HAHNDORF HALBURY ROAD, SALISBURY (HALBURY ROAD) HALLETT HALLETT (ASHROSE) HALLETT (LORRAINE)	23915 16103 16101 16102 16104 23133 23305 23169 26114 21022 23719 23720 23043 21023 21027	5114 NIL NIL NIL S086 5360 5360 5272 5470 5233 5245 5108 5419 5419 5419 5419	GOULD CREEK NIL NIL NIL NIL GREENACRES GREENOCK GREENOCK GREENWAYS GULNARE GUMERACHA HAHNDORF PARALOWIE HALLETT WILLALO WILLALO	Y N N N N N N N N N N N N N N N N N N N



TEF03261	HAMILTON STATION	16083	5734	ERINGA	N
TEF03262	HAMLEY BRIDGE	23095	5401	HAMLEY BRIDGE	Y
TEF03263	HAMLEY BRIDGE	29135	5400	HAMI FY BRIDGE	Υ
TEF03264	HAMLEY BRIDGE (LINWOOD)	23356		LINWOOD	Y
TEF03265	HAMMOND (COONATTO)	19108		HAMMOND	Υ
TEF03266	HANSBOROUGH	23374		HANSBOROUGH	Y
TEF03267	HAPPY VALLEY RESERVOIR HARROGATE	23721		HAPPY VALLEY HARROGATE	Y
TEF03268 TEF03269	HARTLEY (PINE HILL)	23722 23822	-	HARTLEY	Y
TEF03270	HASLAM	18118		HASLAM	N
TEF03271	HAWKER	19017		HAWKER	Y
TEF03272	HAWKER (HOLOWILIENA)	19018	_	HOLOWILIENA	N
TEF03273	HAWKER (WARCOWIE)	19046	5434	HAWKER	Y
TEF03274	HAWKER (WILSON)	19050	5433	KANYAKA	Y
TEF03275	HEATHFIELD WORKS DEPOT	23843	5153	HEATHFIELD	Y
TEF03276	HILLTOWN	21059		HILLTOWN	Υ
TEF03277	HILTABA	16034	_	HILTABA	N
TEF03278	HINDMARSH ISLAND (MUNDOO BARRAGE)	23131		HINDMARSH ISLAND	Y
TEF03279	HINDMARSH ISLAND AWS	23894	_	HINDMARSH ISLAND HINDMARSH TIERS	Y
TEF03280 TEF03281	HINDMARSH VALLEY (FERNBROOK) HINDMARSH VALLEY (SPRINGMOUNT)	23824	-	HINDMARSH VALLEY	Y
TEF03282	HOYLETON (ROCKLEIGH)	21137	_	HOYLETON	Y
TEF03283	HUDDLESTON (WILLOW PONDS)	21072		GEORGETOWN	Y
TEF03284	INGLEWOOD	123700		LOWER HERMITAGE	Y
TEF03285	INMAN VALLEY	23723	5211	INMAN VALLEY	Y
TEF03286	INNAMINCKA (BOOKABOURDIE)	17125	5731	INNAMINCKA	N
TEF03287	INNAMINCKA (COOPER CREEK)	17118		INNAMINCKA	N
TEF03288	INNAMINCKA (DULLINGARI)	17111	_	INNAMINCKA	N
TEF03289	INNAMINCKA HOTEL	17121		INNAMINCKA	N
TEF03290	INNAMINCKA STATION IRON KNOB	17028 18034		INNAMINCKA IRON KNOB	Y
TEF03291 TEF03292	IRON KNOB (GILLES DOWNS)	18031		GILLES DOWNS	Y
TEF03293	IRONSTONE ROAD	23880		FORRESTON	Y
TEF03294	JAMESTOWN	21027		JAMESTOWN	Y
TEF03295	JAMESTOWN PIRSA	21060	5491	JAMESTOWN	Y
TEF03296	KADINA AWS	22050	5554	KADINA	Υ
TEF03297	KALAMURINA	17089		KALAMURINA	N
TEF03298	KALANGADOO	26009		KALANGADOO	Y.
TEF03299	KALANGADOO (MIRNAT)	26113	5278		Y.
TEF03300	KANGARILLA (SADDLEBAGS)	23910		KANGARILLA	Y
TEF03301	KANMANTOO KANMANTOO (MILLBRAE)	23724 23863	_	KANMANTOO HARROGATE	Y
TEF03302 TEF03303	KAPUNDA	23307		KAPUNDA	Y
TEF03304	KAPUNDA (BAGOT WELL)	23354		BAGOT WELL	Y
TEF03305	KARCULTABY	18036		KARCULTABY	N
TEF03306	KAROONDA	25006	5307	KAROONDA	Y
TEF03307	KEITH	25507	5267	KEITH	Υ
TEF03308	KEITH (MUNKORA)	25557		KEITH	Υ
TEF03309	KERSBROOK	23877		KERSBROOK	Υ
TEF03310	KERSBROOK (MABENJO)	23758	_	KERSBROOK	Y
TEF03311	KEYNETON KEYNETON (SEDAN HILL)	23725 24575		KEYNETON KEYNETON	Y
TEF03312 TEF03313	KI KI (MOORILLA)	25543	5261		Y
TEF03314	KILBURN	23134		KILBURN	Y
TEF03315	KIMBA	18040		KIMBA	Υ
TEF03316	KIMBA (BOTENELLA HILLS)	18214	5641	WILCHERRY	N
TEF03317	KIMBA (CORTLINYE EVAPORATION)	18226	5641	CORTLINYE	N
TEF03318	KIMBA (CORTLINYE)	18193		CORTLINYE	N
TEF03319	KIMBA (CURTINYE)	18037		KELLY	Y
TEF03320	KIMBA (MELALEUCA)	18177		PINKAWILLINIE	Y
TEF03321	KINGOONYA (NORTH WELL)	16016		WILGENA	N
TEF03322	KINGSCOTE KINGSCOTE (KARINGA)	22807		MACGILLIVRAY	N
TEF03323 TEF03324	KINGSCOTE (KAKINGA) KINGSCOTE AERO	22841		CYGNET RIVER	N
TEF03325	KINGSTON ON MURRAY	24006		KINGSTON ON MURRAY	Y
TEF03326	KINGSTON SE	26012		KINGSTON SE	Y
TEF03327	KINGSTON SE (KEILIRA STATION)	26010		KEILIRA	Y
TEF03328	KINGSTON SE (MOREVIEW)	26110		BLACKFORD	Y
TEF03329	KOKATHA	16021		KOKATHA	N
TEF03330	KONDOOLKA	16022		KONDOOLKA	N Y
TEF03331	KOOLUNGA KOONAMORE	21029		KOOLUNGA KOONAMORE	N
TEF03332 TEF03333	KOONGAWA (RETAWON)	18101		KOONGAWA	У
TEF03334	KOPPIO	18043	_	KOPPIO	Y
TEF03335	KUITPO FOREST RESERVE	23887		KUITPO	Y
TEF03336	KULKAMI	25036	5307	LAMEROO	N
TEF03337	KYANCUTTA	18044	5650	KYANCUTTA	Y
TEF03338	KYANCUTTA (BILLABOWIE)	18208	_	WARRAMBOO	Y
TEF03339	KYANCUTTA (KYANBRAE)	18170	_	KYANCUTTA	Y
TEF03340	KYBUNGA (CLOVERLEA)	21073	_	SPRING GULLY	Y
TEF03341	LAKE GEORGE (MAHARISHI VEDIC COLLEGE)	16024 26109	_	LAKE EVERARD BEACHPORT	N
TEF03342	LAKE GEORGE (MAHARISHI VEDIC COLLEGE) LAKE LEAKE (KOOEEYONG)	26014		KOORINE	Y
TEF03344 TEF03344	LAMBINA	16100		LAMBINA	N
TEF03344 TEF03345	LAMEROO (ARTLARINGA)	25542		LAMEROO	N
TEF03346	LAMEROO (AUSTIN PLAINS)	25562		LAMEROO	N
TEF03347	LAMEROO (DESFORD)	25054		LAMEROO	N
TEF03348	LAMEROO COMPARISON	25509	_	LAMEROO	N
TEF03349	LANGHORNE CREEK	24515		LANGHORNE CREEK	Y
TEF03350	LAURA	21031	_	LAURA	Y
TEF03351	LAURA (BEETALOO RESERVOIR)	21124	_	BEETALOO VALLEY	Y
TEF03352	LEAWOOD GARDENS (EAGLE ON THE HILL)	23874 17136		MANNERS WELL	Y
TEF03353 TEF03354	LEIGH CREEK (MAYNARDS WELL) LEIGH CREEK (NORTH MOOLOOLOO)	17137		NORTH MOOLOOLOO	Y
TEF03355	LEIGH CREEK (NON'H MOOLOOLOO)	17138		NORTH MOOLOOLOO	Y
TEF03356	LEIGH CREEK AIRPORT	17110		LEIGH CREEK	Ý
		encolate L			



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TEF03357	LENSWOOD (STRINGYBARK)	23865		LENSWOOD	Y
TEF03358 TEF03359	LENSWOOD RESEARCH CENTRE	23801 20012		MUTOOROO	N
TEF03360	LOBETHAL	23726		LOBETHAL	Y
TEF03361	LOBETHAL	23862	5241	LOBETHAL	Υ
TEF03362	LOBETHAL (MAIDMENT ROAD)	23882		LOBETHAL	Y
TEF03363	LOCK	18046		LOCK	Y
TEF03364 TEF03365	LOCK (CALLAMONDAH) LOCK (TERRAH WINDS)	18084 18165	5607 5633	MURDINGA	Y
TEF03366	LONG RIDGE (GREENHILL)	23860	-		Y
TEF03367	LONGWOOD	23108		BRADBURY	Y
TEF03368	LONGWOOD	23727	5153	MYLOR	Y
TEF03369	LOWALDIE (CARRAMAR STUD)	25039		KAROONDA	Y
TEF03370	LOXTON (PYAP)	24013		PYAP	Y
TEF03371 TEF03372	LOXTON RESEARCH CENTRE LUCINDALE (GREENVALE)	24024 26069		WOOLUMBOOL	Y
TEF03372	LUCINDALE (GREENVALE)	26016		LUCINDALE	Ý
TEF03374	LYNDHURST	17139		LYNDHURST	Y
TEF03375	LYNDOCH	23309	5351	LYNDOCH	Y
TEF03376	LYNTON (METRO SOUTH SES BASESTATION)	23917		LYNTON	Y
TEF03377	LYRUP	24008		LYRUP	Y
TEF03378 TEF03379	MACCLESFIELD MACUMBA	23728 17030		MACCLESFIELD MACUMBA	N N
TEF03379	MAGPIE CORNER (MURRAY'S COTTAGES)	26112	-	MAAOUPE	Y
TEF03381	MAITLAND	22008		MAITLAND	Y
TEF03382	MAITLAND (CARINYA)	22056	5573	MAITLAND	Y
TEF03383	MAITLAND (KILKERRAN)	22010		MAITLAND	Y
TEF03384	MALLALA	23009		MALLALA	Y
TEF03385 TEF03386	MALLALA (DOLAGHANS CROSSING) MAMBRAY CREEK (BERNIE'S BLOCK)	23129 19120		REDBANKS MAMBRAY CREEK	Y
TEF03387	MANGALO	18173		MANGALO	y
TEF03388	MANNA HILL	20013		MANNA HILL	N
TEF03389	MANNA HILL (WADNAMINGA)	20048	5440	WADNAMINGA	N
TEF03390	MANNANARIE	19115		MANNANARIE	Y
TEF03391	MANNUM COUNCIL DEPOT	24517		MANNUM	Y
TEF03392 TEF03393	MANOORA MANOORA (COOINDA)	23310 21076	5413	MANOORA MINTARO	Y
TEF03394	MANTUNG	25051		MANTUNG	Y
TEF03395	MARALINGA	18114		NIL	N
TEF03396	MARALINGA (DOBO)	18225	NIL	NIL	N
TEF03397	MARAMA	25032		MARAMA	Υ
TEF03398	MARLA POLICE STATION	16085		MARLA	N
TEF03399	MARRABEL AAABBEE (CALLANNA)	23311 17130	-	MARRABEL CALLANNA	N N
TEF03400 TEF03401	MARREE (CALLANNA) MARREE (CLAYTON)	17076		CLAYTON STATION	N
TEF03402	MARREE (DULKANINNA)	17058		DULKANINNA	N
TEF03403	MARREE (ETADUNNA)	17132	5710	ETADUNNA	N
TEF03404	MARREE (FARINA)	17024		FARINA	N
TEF03405	MARREE (MUNDOWDNA STATION)	17038		MUNDOWDNA	N
TEF03406	MARREE (WILPOORINNA STATION)	17129 17055		MUNDOWDNA WITCHELINA	N N
TEF03407 TEF03408	MARREE (WITCHELINA STATION) MARREE AERO	17126		MARREE	N
TEF03409	MARREE COMPARISON	17031		MARREE	N
TEF03410		23861		MCLAREN FLAT	Y
	MCLAREN FLAT (BELTUNGA)	LJUUI	21/1	WIGD WEITT DVI	
TEF03411	MCLAREN PLAT (BELTONGA) MCLAREN VALE (PIRRAMIMMA WINERY)	23876	5171	MCLAREN VALE	Y
TEF03412	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS	23876 23730	5171 5201	MCLAREN VALE MEADOWS	Y
TEF03412 TEF03413	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE	23876 23730 19024	5171 5201 5483	MCLAREN VALE MEADOWS MELROSE	Y
TEF03412 TEF03413 TEF03414	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS)	23876 23730 19024 19042	5171 5201 5483 5483	MCLAREN VALE MEADOWS MELROSE MELROSE	Y Y Y
TEF03412 TEF03413 TEF03414 TEF03415	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE PARK	23876 23730 19024 19042 23144	5171 5201 5483 5483 5039	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE MELROSE PARK	Y
TEF03412 TEF03413 TEF03414 TEF03415 TEF03416	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE PARK MENINGIE	23876 23730 19024 19042	5171 5201 5483 5483 5039 5264	MCLAREN VALE MEADOWS MELROSE MELROSE	Y Y Y Y
TEF03412 TEF03413 TEF03414 TEF03415	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE PARK	23876 23730 19024 19042 23144 24518	5171 5201 5483 5483 5039 5264 5264	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE PARK MENINGIE	Y Y Y Y Y
TEF03412 TEF03413 TEF03414 TEF03415 TEF03416 TEF03417 TEF03418 TEF03419	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE PARK MENINGIE MENINGIE (EGRETTA) MENINGIE (GREEN PLAINS) MENINGIE (MILL PARK)	23876 23730 19024 19042 23144 24518 24577 25556 25529	5171 5201 5483 5483 5039 5264 5264 5264 5264	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE PARK MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE	Y Y Y Y Y Y Y
TEF03412 TEF03413 TEF03414 TEF03415 TEF03416 TEF03417 TEF03418 TEF03419 TEF03420	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE (PARA GUMS) MEIROSE (PARK MENINGIE MENINGIE (GREETTA) MENINGIE (GREEN PLAINS) MENINGIE (MILL PARK) MENINGIE (MILL PARK)	23876 23730 19024 19042 23144 24518 24577 25556 25529 25523	5171 5201 5483 5483 5039 5264 5264 5264 5264 5264	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE PARK MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE FIELD	Y Y Y Y Y Y Y
TEF03412 TEF03413 TEF03414 TEF03415 TEF03416 TEF03417 TEF03418 TEF03419 TEF03420 TEF03421	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE PARK MENINGIE MENINGIE (EGRETTA) MENINGIE (GREEN PLAINS) MENINGIE (MILL PARK) MENINGIE (MARANGA) MENINGIE (WALTOWA)	23876 23730 19024 19042 23144 24518 24577 25556 25529 25523 24537	5171 5201 5483 5483 5039 5264 5264 5264 5264 5261 5264	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE PARK MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE FIELD WALTOWA	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
TEF03412 TEF03413 TEF03414 TEF03415 TEF03416 TEF03417 TEF03418 TEF03419 TEF03420 TEF03421 TEF03422	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE PARK MENINGIE MENINGIE (EGRETTA) MENINGIE (GREEN PLAINS) MENINGIE (MILL PARK) MENINGIE (MILL PARK) MENINGIE (WALTOWA) MERIBAH (MERALLEN)	23876 23730 19024 19042 23144 24518 24577 25556 25529 25523 24537 25048	5171 5201 5483 5483 5039 5264 5264 5264 5264 5264 5264 5264 5264	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE PARK MENINGIE	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
TEF03412 TEF03413 TEF03414 TEF03415 TEF03416 TEF03417 TEF03418 TEF03419 TEF03420 TEF03421	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE PARK MENINGIE MENINGIE (EGRETTA) MENINGIE (GREEN PLAINS) MENINGIE (MILL PARK) MENINGIE (MARANGA) MENINGIE (WALTOWA)	23876 23730 19024 19042 23144 24518 24577 25556 25529 25523 24537	5171 5201 5483 5483 5039 5264 5264 5264 5264 5261 5264 5311	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE PARK MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE FIELD WALTOWA	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
TEF03412 TEF03413 TEF03414 TEF03415 TEF03416 TEF03417 TEF03418 TEF03419 TEF03420 TEF03420 TEF03421 TEF03421 TEF03422 TEF03423	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE PARK MENINGIE MENINGIE (GRETTA) MENINGIE (GREEN PLAINS) MENINGIE (MILL PARK) MENINGIE (MARANGA) MENINGIE (WATOWA) MERIBAH (MERALLEN) MICHAEL PERRY RESERVE, STONYFELL (STONYF	23876 23730 19024 19042 23144 24518 24577 25556 25529 25523 24537 25048 23145	5171 5201 5483 5483 5039 5264 5264 5264 5264 5264 5264 5311 5066	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE PARK MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE HELD WALTOWA MERIBAH BURNSIDE	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
TEF03412 TEF03413 TEF03414 TEF03415 TEF03416 TEF03417 TEF03418 TEF03419 TEF03420 TEF03421 TEF03422 TEF03422 TEF03423 TEF03424	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE (PARA GUMS) MELROSE (PARA GUMS) MENINGIE MENINGIE (GREETTA) MENINGIE (GREEN PLAINS) MENINGIE (MILL PARK) MENINGIE (MILL PARK) MENINGIE (WALTOWA) MERIBAH (MERALLEN) MICHAEL PERRY RESERVE, STONYFELL (STONYF MILANG	23876 23730 19024 19042 23144 24518 24577 25556 25529 25523 24537 25048 23145 24519 24576 24550	5171 5201 5483 5039 5264 5264 5264 5261 5264 5311 5066 5255 5255	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE PARK MENINGIE MELROSE MELROSE MELROSE MELROSE MILANG MALTOWA MERIBAH BURNSIDE MILANG ANGAS PLAINS POINT STURT	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
TEF03412 TEF03413 TEF03414 TEF03415 TEF03416 TEF03417 TEF03418 TEF03419 TEF03420 TEF03421 TEF03421 TEF03422 TEF03422 TEF03423 TEF03424 TEF03425 TEF03426 TEF03427	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE PARK MENINGIE MENINGIE (GREETTA) MENINGIE (GREEN PLAINS) MENINGIE (MILL PARK) MENINGIE (MARANGA) MENINGIE (WALTOWA) MERIBAH (MERALLEN) MICHAEL PERRY RESERVE, STONYFELL (STONYF MILANG MILANG (NAVARINO) MILANG (POINT STURT) MILLERS CREEK	23876 23730 19024 23144 24518 24577 25556 25529 25523 24537 2508 23145 24519 24576 24550 16028	5171 5201 5483 5483 5039 5264 5264 5261 5266 5266 5256 5256 5256 5256 5256	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE PARK MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MILANG MERIBAH BURNSIDE MILANG ANGAS PLAINS POINT STURT MILLERS CREEK	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
TEF03412 TEF03413 TEF03414 TEF03415 TEF03416 TEF03417 TEF03418 TEF03419 TEF03420 TEF03421 TEF03422 TEF03422 TEF03425 TEF03425 TEF03426 TEF03426 TEF03427 TEF03428	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE (PARA GUMS) MELROSE (PARA GUMS) MENINGIE MENINGIE (GREETTA) MENINGIE (GREEN PLAINS) MENINGIE (MILL PARK) MENINGIE (MILL PARK) MENINGIE (MALTOWA) MERIBAH (MERALLEN) MICHAEL PERRY RESERVE, STONYFELL (STONYF MILANG MILANG (NAVARINO) MILANG (POINT STURT) MILLERS CREEK MILLICENT	23876 23730 19024 19042 23144 24518 24577 25556 25529 25523 24537 25437 24519 24576 24550	5171 5201 5483 5483 5039 5264 5264 5264 5264 5265 5265 5255 5256 57100 5280	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE PARK MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MILATOWA MERIBAH BURNSIDE MILANG ANGAS PLAINS POINT STURT MILLERS CREEK MILLICENT	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
TEF03412 TEF03413 TEF03414 TEF03415 TEF03416 TEF03417 TEF03418 TEF03419 TEF03420 TEF03421 TEF03422 TEF03422 TEF03425 TEF03426 TEF03426 TEF03427 TEF03428 TEF03429	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE PARK MENINGIE MENINGIE (BRETTA) MENINGIE (GREEN PLAINS) MENINGIE (GREEN PLAINS) MENINGIE (MILL PARK) MENINGIE (MILL PARK) MENINGIE (WALTOWA) MERIBAH (MERALLEN) MICHAEL PERRY RESERVE, STONYFELL (STONYF MILANG MILANG (NAVARINO) MILANG (POINT STURT) MILLERS CREEK MILLICENT MINBURRA	23876 23730 19024 19042 23144 24518 245777 25556 25529 25523 24537 25048 23145 24576 24550 16028 26188 19114	5171 5201 5483 5483 5039 5264 5264 5264 5261 5311 5066 5256 5255 5255 5255 5250 5710	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE PARK MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MILANG MERIBAH BURNSIDE MILANG ANGAS PLAINS POINT STURT MILLERS CREEK MILLICENT MINBURRA PLAIN	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
TEF03412 TEF03413 TEF03414 TEF03415 TEF03416 TEF03417 TEF03418 TEF03419 TEF03420 TEF03421 TEF03421 TEF03422 TEF03423 TEF03424 TEF03425 TEF03426 TEF03427 TEF03428 TEF03429 TEF03430	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE PARK MENINGIE MENINGIE (EGRETTA) MENINGIE (GREEN PLAINS) MENINGIE (MILL PARK) MENINGIE (MILL PARK) MENINGIE (WALTOWA) MERIBAH (MERALLEN) MICHAEL PERRY RESERVE, STONYFELL (STONYF MILANG MILANG (NAVARINO) MILANG (POINT STURT) MILLERS CREEK MILLICENT MINBURRA MINDARIE	23876 23730 19024 19042 23144 24518 24577 25556 25529 25523 24537 25048 23145 24519 24576 24550 16028 26018	5171 5201 5483 5483 5039 5264 5264 5261 5263 5264 5261 5264 5265 5255 5255 5255 5255 5255 5255	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE PARK MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MILANG MERIBAH BURNSIDE MILANG ANGAS PLAINS POINT STURT MILLERS CREEK MILLICENT MINDURRA PLAIN MINDARIE	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
TEF03412 TEF03413 TEF03414 TEF03415 TEF03416 TEF03417 TEF03418 TEF03419 TEF03420 TEF03421 TEF03422 TEF03422 TEF03425 TEF03426 TEF03426 TEF03427 TEF03428 TEF03429	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE PARK MENINGIE MENINGIE (BRETTA) MENINGIE (GREEN PLAINS) MENINGIE (GREEN PLAINS) MENINGIE (MILL PARK) MENINGIE (MILL PARK) MENINGIE (WALTOWA) MERIBAH (MERALLEN) MICHAEL PERRY RESERVE, STONYFELL (STONYF MILANG MILANG (NAVARINO) MILANG (POINT STURT) MILLERS CREEK MILLICENT MINBURRA	23876 23730 19024 19042 23144 24518 245777 25556 25529 25523 24537 25048 23145 24576 24550 16028 26188 19114	5171 5201 5483 5483 5039 5264 5264 5261 5266 5266 5256 5256 5256 5256 5256	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE PARK MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MENINGIE MILANG MERIBAH BURNSIDE MILANG ANGAS PLAINS POINT STURT MILLERS CREEK MILLICENT MINBURRA PLAIN	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
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TEF03412 TEF03413 TEF03414 TEF03415 TEF03416 TEF03416 TEF03417 TEF03418 TEF03418 TEF03419 TEF03421 TEF03421 TEF03422 TEF03423 TEF03425 TEF03425 TEF03426 TEF03427 TEF03428 TEF03431 TEF03431 TEF03431 TEF03431 TEF03431 TEF03434 TEF03444 TEF03444 TEF03445 TEF03441 TEF03441 TEF03441 TEF03441 TEF03444 TEF03444 TEF03445 TEF03446 TEF03447 TEF03448 TEF03448	MCLAREN VALE (PIRRAMIMMA WINERY) MEADOWS MELROSE MELROSE (PARA GUMS) MELROSE PARK MENINGIE MENINGIE (GRETTA) MENINGIE (GREEN PLAINS) MENINGIE (MILL PARK) MENINGIE (MILL PARK) MENINGIE (WALTOWA) MERIBAH (MERALLEN) MICHAEL PERRY RESERVE, STONYFELL (STONYF MILANG MILANG (MAVARINO) MILANG (POINT STURT) MILLERS CREEK MILLICENT MINDARIE MINDARIE MINDARIE MINIATON (EVERSLEY) MINIATON (EVERSLEY) MININIPA (MOONLIGHT FLAT) MINIPA (MISTILLERE) MINNIPA (MOONLIGHT FLAT) MINNIPA (MISTILLERE) MINNIPA (MARTINDALE) MINTARO MINTARO (MARTINDALE) MITCHELL PARK (MARION) MONARTO SOUTH (MONARTO SECTION 307) MONARTO ZOOLOGICAL PARK MONTACUTE MOOMBA (DARALINGIE) MOOMBA (DARALINGIE) MOOMBA (TIRRAWARRA) MOOMBA (TIRRAWARRA) MOOMBA (TIRRAWARRA) MOOMBA (TIRRAWARRA) MOOMBA (TIRRAWARRA)	23876 23730 19024 19042 23144 24518 24577 25556 25529 25523 24537 25048 23145 24519 24576 24550 16028 26018 19114 25010 22009 22036 18210 18211 18195 16088 21033 21123 24589 24582 23892 20049 17026 17012 17112	5171 5201 5483 5483 5483 5039 5264 5264 5264 5264 5265 5265 5270 5280 5440 5309 5575 5575 5654 5654 5654 5654 5654 5654	MCLAREN VALE MEADOWS MELROSE MELROSE MELROSE MELROSE MELROSE MENINGIE MILANG MILANG MILANG MILERS CREEK MILLICENT MILLERS CREEK MILLICENT MINDURAPHAIN MINDARIE MINATON MININATON MINILATON MINILATON MINILATON MININIPA MININIPA MIL MINTARO MITCHELL PARK MONARTO MONTACUTE MOOLEULOOLOO STRZELECKI DESERT MULKA GIDGEALPA GIDGEALPA	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y



EF03453	MOOROOK	24010	5332	MOOROOK SOUTH	Y
EF03454	MORCHARD (THE ROCKS)	19025	5431	PEKINA	Y
EF03455	MORGAN (BRENDA PARK STATION)	24578	5320	MORGAN	Υ
EF03456	MORPHETTVILLE	23143		MORPHETTVILLE	Y
EF03457	MOUNT BARKER	23733		MOUNT BARKER	Y
EF03458	MOUNT BARRY STATION	16082		MOUNT BARRY	N
EF03459	MOUNT BOLD RESERVOIR	23734		DORSET VALE	Υ
EF03460	MOUNT BRYAN	21034		MOUNT BRYAN	Υ
EF03461	MOUNT COMPASS	23735		MOUNT COMPASS	Y
EF03462	MOUNT CRAWFORD (MT CRAWFORD AWS)	23878		MOUNT CRAWFORD	Y
EF03463	MOUNT CRAWFORD FOREST HEADQUARTERS	23763		MOUNT CRAWFORD	Υ
EF03464	MOUNT DARE	17070	5710	WITIIRA	N
EF03465	MOUNT EBA	16030	5710	MOUNT EBA	N
EF03466	MOUNT GAMBIER (BLUE LAKE HOLIDAY PARK)	26085	5290	MOUNT GAMBIER	Υ
EF03467	MOUNT GAMBIER AERO	26021	5291	WANDILO	Υ
EF03468	MOUNT GAMBIER COUNCIL DEPOT	26102	5290	MOUNT GAMBIER	Y
EF03469	MOUNT HOPE (FAIRVIEW)	18171	5631	MOUNT HOPE	N
EF03470	MOUNT IVE	16067	5600	MOUNT IVE	N
EF03471	MOUNT LOFTY	23842	5152	CRAFERS	Y
EF03472	MOUNT LOFTY (CLELAND CONSERVATION PARK)	23810	5152	CLELAND	Υ
EF03473	MOUNT MARY	24586	5320	MOUNT MARY	Υ
EF03474	MOUNT PENNY	25563	5275	TINTINARA	Υ
EF03475	MOUNT PLEASANT	23737	5235	MOUNT PLEASANT	Υ
EF03476	MOUNT REMARKABLE (ALLIGATOR GORGE)	19071	5485	WILMINGTON	Y
EF03477	MOUNT SCHANK (JETHIA)	26067		MOUNT SCHANK	Y
	MOUNT TEMPLETON (GLENALBYN)	21035		MOUNT TEMPLETON	Y
EF03478		20052		MOUNT VICTOR STATION	N
EF03479	MOUNT VICTOR				N
EF03480	MOUNT WILSON	18056		MOUNT WEDGE	Y
EF03481	MOUNT WILDON	23906		MCLAREN FLAT	Y
EF03482	MOUNT WUDINNA	18057		WUDINNA REETALOO VALLEY	
EF03483	MOUNT ZION	21079		BEETALOO VALLEY	Y
EF03484	MT BOLD (SCOTT CREEK)	23921		DORSET VALE	Y
EF03485	MT DAVIDSON (WILLIPPA)	19121		WILLIPPA	N
EF03486	MT TORRENS	24579		MOUNT TORRENS	Y
EF03487	MULGUNDAWA SALT	24523	5259	MULGUNDAWA	Y
EF03488	MULOORINA STATION (MULOORINA HOMESTEAD)	17037	5710	MULOORINA	N
EF03489	MULYUNGARIE	20016	5440	MULYUNGARIE	N
EF03490	MUNDOORA	21036	5521	MUNDOORA	Υ
EF03491	MUNDOORA (BARUNGA NORTH)	21115	5555	MUNDOORA	Υ
EF03492	MUNGERANIE	17067	5710	MUNGERANIE	N
EF03493	MUNGERANIE (COWARIE)	17020		COWARIE	N
	MURBKO	24587		MURBKO	Υ
EF03494		18164		MURLONG	Y
EF03495	MURDINGA (MUNGALA)	-			Y
EF03496	MURRAY BRIDGE (LOOMOOLOO)	24507		MONARTO SOUTH	_
EF03497	MURRAY BRIDGE (PALLAMANA AERODROME)	24584		PALLAMANA	Υ
EF03498	MURRAY BRIDGE (TEPKO)	24533		TEPKO	Υ
EF03499	MURRAY BRIDGE COMPARISON	24521		MURRAY BRIDGE	Υ
EF03500	MURRAY LAGOON (HAWKS NEST)	22822	5223	MACGILLIVRAY	N
EF03501	MURRAY TOWN (MURRATANA)	19119	5483	BANGOR	Y
TEF03502	MURRAYS LAGOON (BAYSIDE)	22806	5223	SEAL BAY	N
EF03503	MUTOOROO	20017	5440	MUTOOROO	N
EF03504	MYLOR (BIGGS FLAT)	23911	5153	MYLOR	Y
TEF03505	MYPONGA	23738	5202	MYPONGA	Y
EF03506	MYPONGA (LOVELY VALLEY)	23851		HINDMARSH TIERS	Y
EF03507	MYPONGA RESERVOIR	23783		MYPONGA	Y
EF03508	NAIRNE	23739		NAIRNE	Y
EF03508	NANGWARRY FORESTRY SA DEPOT	26098		NANGWARRY	Y
		21132		NANTAWARRA	Ý
EF03510	NANTAWARRA (PINE GULLY)	100000000000000000000000000000000000000			Y
TEF03511	NARACOORTE (BETTWS-Y-COED)	26062		STEWART RANGE	
TEF03512	NARACOORTE (VIEW BANK)	26104		LOCHABER	Ÿ
EF03513	NARACOORTE AERODROME	26099		NARACOORTE	Y
EF03514	NARRUNG (YALKURI)	24539		NARRUNG	Y
EF03515	NEPTUNE ISLAND	18115 N		NIL	N
EF03516	NETHERTON (ROCKLEY GRAZIERS)	25558		NETHERTON	Υ
EF03517	NEW WELL (MARFIELD)	25044	5357	NEW WELL	Y
EF03518	NILDOTTIE	24547	5238	NILDOTTIE	Υ
TEF03519	NILDOTTIE (MOBRAE PARK)	24588		NILDOTTIE	Y
TEF03520	NILPINNA	17127		NILPINNA STATION	N
EF03521	NOARLUNGA	23885		NOARLUNGA DOWNS	Y
TEF03521	NONNING	16032		NONNING	N
EF03522	NORMANVILLE	23741		YANKALILLA	Y
EF03523	NORTH ADELAIDE	23011		NORTH ADELAIDE	Y
	NORTH ADELAIDE NORTH SHIELDS (PORT LINCOLN AERODROME)	18071		NORTH SHIELDS	Y
EF03525		18192		NORTH SHIELDS	Y
TEF03526	NORTH SHIELDS (PORT LINCOLN AWS)	18106		NULLARBOR	N
TEF03527	NULLARBOR	18060		COORABIE	N
EF03528	NUNDROO (CHINTHERA MEH)	-			N
TEF03529	NUNDROO (CHINTULDA WELL)	18199		COORABIE	Y
TEF03530	NURIOOTPA	23357		NURIOOTPA	
EF03531	NURIOOTPA TOWN BRIDGE	23320		NURIOOTPA	Y
EF03532	NURIOOTPA VITICULTURAL	23373		NURIOOTPA	Y
TEF03533	OAK VALLEY	16049 N		NIL	N
EF03534	OAKDALE	18209		TOOLIGIE	Υ
EF03535	OLARY (WIAWERA)	20058		WIAWERA	N
TEF03536	OODLA WIRRA	19031	5440	OODLA WIRRA	N
EF03537	OODLA WIRRA (MCCOYS WELL)	19106	5440	PARATOO	N
TEF03538	OODNADATTA (ALLANDALE)	17007		ALLANDALE STATION	N
EF03539	OODNADATTA (ALESIVACE)	17043		OODNADATTA	N
EL 02022		19032		ORROROO	Y
TEEDSE40	ORROROO (BLACK BOCK)	19032		BLACK ROCK	Y
	ORROROO (BLACK ROCK)	19005			Y
TEF03541				ERSKINE	_
ΓΕF03541 ΓΕF03542	ORROROO (KYLMORN)	150000000000000000000000000000000000000		WALDADA	
TEF03541 TEF03542 TEF03543	ORROROO (YALPARA)	19057		YALPARA	N
TEF03540 TEF03541 TEF03542 TEF03543 TEF03544	ORROROO (YALPARA) OUTER HARBOUR (BLACK POLE)	19057 23052 N	IL	NIL	Y
TEF03541 TEF03542 TEF03543	ORROROO (YALPARA)	19057 23052 N 24012	IL 5345	NIL OVERLAND CORNER	Y
TEF03541 TEF03542 TEF03543 TEF03544	ORROROO (YALPARA) OUTER HARBOUR (BLACK POLE)	19057 23052 N	5345 5460	NIL	Y



TEF03549	PADTHAWAY SOUTH	26100	5271	PADTHAWAY	Y
TEF03550	PALMER	24525	5237	PALMER	Y
TEF03551	PANDIE PANDIE	17045	5710	PANDIE PANDIE	N
TEF03552	PARACHILNA (MOTPENA)	17098	5710	MOTPENA	Υ
TEF03553	PARACHILNA (NILPENA)	17113	5710	NILPENA	Y
EF03554	PARACOMBE (KANGAROO CREEK DAM)	23912	5132	PARACOMBE	Y
EF03555	PARADISE, SA 5075 (ATHELSTONE)	23094	5075	PARADISE	Υ
EF03556	PARAFIELD AIRPORT	23013	5106	PARAFIELD	Y
EF03557	PARAWA (SECOND VALLEY FOREST AWS)	23875	5204	PARAWA	N
EF03558	PARAWA (SHARON)	23761	5204	PARAWA	N
EF03559	PARILLA	25013	5303	PARILLA	N
EF03560	PARINGA LOCK 5	24037	5343	PARINGA	Y
EF03561	PARNDANA	22837		PARNDANA	N
EF03562	PARNDANA (PIONEER BEND)	22815		CASSINI	N
EF03563	PARNDANA (TURKEY LANE)	22835		DUNCAN	N
TEF03564	PARNDANA CFS AWS	22843	-	SEDDON	N
EF03565	PARRAKIE	25512		PARRAKIE	Υ
	PARUNA	25014		PARUNA	N
EF03566	PASKEVILLE	22012		PASKEVILLE	Y
EF03567	PEAKE	25513		PEAKE	Y
EF03568		25023		PEEBINGA	N
EF03569	PEEBINGA	22836		PELICAN LAGOON	N
EF03570	PELICAN LAGOON	0.00000000		PELICAN POINT	Y
EF03571	PELICAN POINT	26111			N
EF03572	PENNESHAW	22809		PENNESHAW	
EF03573	PENOLA POST OFFICE	26025		PENOLA	Y
EF03574	PENONG	18063		PENONG	N
EF03575	PENONG (PENALUMBA)	18002		BOOKABIE	N
EF03576	PERPONDA	25025	5307	PERPONDA	Υ
EF03577	PETERBOROUGH	19034	5422	PETERBOROUGH	Υ
EF03578	PETERBOROUGH (AMELIA PARK)	19118	5440	UCOLTA	Y
EF03579	PETERSVILLE	22037	5571	MAITLAND	Υ
EF03580	PICCADILLY (MOUNT LOFTY BOTANIC GARDEN)	23788	5152	CRAFERS	Y
EF03581	PICCADILLY (WOODHOUSE)	23891	5144	PICCADILLY	Y
EF03582	PINE POINT (AMELIA DOWNS)	22054	5571	PINE POINT	Y
EF03583	PINE VALLEY	20030	5417	PINE VALLEY STATION	N
EF03584	PINNAROO	25015	5304	PINNAROO	IN
EF03585	PINNAROO (KOMBALI)	25046	5304	KARTE	N
EF03586	PIPALYATJARA	16099 N		NIL	N
EF03587	PLUMBAGO	20050		PLUMBAGO	IN
EF03588	POINT PASS	24526		POINT PASS	Y
EF03589	POLICEMAN POINT	26049		COORONG	Y
	POOCHERA	18068		POOCHERA	N
EF03590		16005		CARRIEWERLOO	Y
EF03591	PORT AUGUSTA (CARRIEWERLOO STN)	19078		STIRLING NORTH	Y
F03592	PORT AUGUSTA (STIRLING NORTH)	-			Y
EF03593	PORT AUGUSTA AERO	18201		PORT AUGUSTA WEST	
EF03594	PORT AUGUSTA POWER STATION	19066		PORT PATERSON	Y
EF03595	PORT AUGUSTA WEST	18224		PORT AUGUSTA WEST	Y
EF03596	PORT BROUGHTON	21042		PORT BROUGHTON	Y
EF03597	PORT BROUGHTON (WANDEARAH)	21108		WANDEARAH EAST	Y
EF03598	PORT CLINTON (KADDYINNA)	22044		CLINTON	Y
EF03599	PORT CLINTON (YARAROO)	22022	5570	KAINTON	Υ
EF03600	PORT ELLIOT CARAVAN PARK	23742	5212	PORT ELLIOT	Υ
EF03601	PORT GAWLER (BUCKLAND PARK)	23032	5501	MIDDLE BEACH	Υ
EF03602	PORT GERMEIN	19037	5495	PORT GERMEIN	Υ
EF03603	PORT GERMEIN (GOWAN BRAE)	19112	5540	TELOWIE	Υ
EF03604	PORT KENNY	18150	5607	PORT KENNY	N
EF03605	PORT KENNY (MOUNT COOPER)	18054	5671	COLLEY	N
	PORT LINCOLN (BIG SWAMP)	18017		PEARLAH	Y
EF03606	PORT LINCOLN (WESTMERE)	18137		SLEAFORD	Y
EF03607		18092		WHITES FLAT	Y
EF03608	PORT LINCOLN (WHITE FLAT)	18107		GREEN PATCH	Y
EF03609	PORT LINCOLN (WOOLGA)				Y
EF03610	PORT LINCOLN SOUTH	18205		PORT LINCOLN	_
EF03611	PORT NEILL	18072		PORT NEILL	Y
EF03612	PORT PARHAM	23076		PARHAM	Y
EF03613	PORT PIRIE AERODROME	21118		PIRIE EAST	Y
EF03614	PORT VICTORIA	22013		PORT VICTORIA	Y
EF03615	PORT VINCENT	22014		PORT VINCENT	Y
EF03616	PORT WAKEFIELD	21044		PORT WAKEFIELD	Υ
EF03617	PORT WAKEFIELD (PAREORA)	21063		PORT WAKEFIELD	Υ
EF03618	PRICE	22015		PRICE	Y
EF03619	PROSPECT HILL	23799	5201	PROSPECT HILL	Υ
EF03620	PUNTABIE (EAGLE VIEW)	18219	5680	PUNTABIE	N
EF03621	PURNONG (CLAYPANS)	25002	5238	CLAYPANS	Y
EF03622	QUONDONG	20054	5440	QUONDONG	N
EF03623	QUORN	19038		QUORN	У
EF03624	QUORN (DEPOT FLAT)	19002		YARRAH	Y
EF03625	QUORN (OLIVE GROVE)	19030		QUORN	Ÿ
EF03626	RED CREEK (BURWOOD)	23864		RED CREEK	Y
EF03627	REDHILL	21045		REDHILL	Y
EF03627 EF03628	REEVES PLAINS (PARANA PARK)	23087		REEVES PLAINS	Y
EF03628 EF03629	REGENCY PARK	23137		REGENCY PARK	Ý
		24048		OLD CALPERUM	Y
EF03630	RENMARK AERO	24003		RENMARK	Y
EF03631	RENMARK IRRIGATION	-			Y
EF03632	RHYNIE	21130		WOOLSHED FLAT	Y
EF03633	RHYNIE (SALTERS SPRINGS)	23039		SALTER SPRINGS	_
EF03634	RIVERTON	23314		RIVERTON	Y
EF03635	RIVERTON (LEEWARD)	23355		RIVERTON	Y
EF03636	RIVERTON (MAROOMBA)	23306		RIVERTON	Y
EF03637	ROBE (BISCUIT FLAT)	26106		CONMURRA	Y
EF03638	ROBE AIRFIELD	26105	5275	ROBE	Ÿ
EF03639	ROBE COMPARISON	26026	5276	ROBE	Y
EF03640	ROBERTSTOWN	24528		ROBERTSTOWN	Y
EF03641	ROCKLEIGH (BLACK HEATH)	23812		ROCKLEIGH	Y
	ROCKY RIVER (BROOKLAND PARK)	22820		GOSSE	N
	HOURT HIVER TOHOURDAYD LAND	-			
EF03642 EF03643	ROSEDALE (TURRETFIELD RESEARCH CENTRE)	23343		ROSEDALE	Y



TEF03645	ROSEWORTHY AWS	23122	5400	WASLEYS	Y
TEF03646	ROSSLYN PARK (SEAVIEW)	23085	5072	ROSSLYN PARK	Y
FF03647	ROSTREVOR (STRADBROKE)	23086	5073	ROSTREVOR	Y
TEF03648	ROWLAND FLAT (NEW JACOBS CREEK)	23376	5351	ROWLAND FLAT	Y
TEF03649	ROXBY DOWNS (OLYMPIC DAM AERODROME)	16096	5725	OLYMPIC DAM	Y
TEF03650	ROXBY DOWNS (PARAKYLIA STATION)	16035	5710	PARAKYLIA	Y
TEF03651	ROXBY DOWNS STATION	16040	5710	ROXBY DOWNS STATION	Y
TEF03652	RUDALL (SWAFFPRO)	18174		RUDALL	Y
TEF03653	SADDLEWORTH	23315		SADDLEWORTH	Y
TEF03654	SADDLEWORTH	23349		SADDLEWORTH	Y
TEF03655	SALT CREEK (PITLOCHRY HOMESTEAD)	26083		DEEPWATER	Y
	SALT CREEK (PITLOCHRY OUTSTATION 1)	26065		TILLEY SWAMP	Y
TEF03656		22016			Y
EF03657	SANDILANDS	225.00		SANDILANDS	_
TEF03658	SECOND VALLEY (POOLAMACCA)	23744		SECOND VALLEY	N
TEF03659	SEDAN	24531		SEDAN	Y
TEF03660	SEDAN (SANDLETON)	24530	5356	SANDLETON	Y
TEF03661	SEDAN (YOOKAMURRA SANCTUARY)	24581	5354	FISHER	Y
TEF03662	SELLICKS BEACH	23871	5173	ALDINGA BEACH	Y
EF03663	SELLICKS HILL (MOUNT TERRIBLE RADAR)	23886	5172	SELLICKS HILL	Y
TEF03664	SEVENHILL	21127	5453	SEVENHILL	Y
EF03665	SHEA-OAK LOG (GREENOCK CREEK)	23348	5355	SHEA-OAK LOG	Y
EF03666	SHERINGA (LAKE HAMILTON)	18045	5632	KIANA	N
EF03667	SHERLOCK (WARRANA)	25042		SHERLOCK	Y
					N
EF03668	SIAM	18186		SIAM	_
EF03669	SMITH BAY (SMITHS BAY)	22811		WISANGER	N
EF03670	SMITHFIELD	23025	5114	SMITHFIELD	Y
EF03671	SMOKY BAY	18077	5680	SMOKY BAY	N
EF03672	SNOWTOWN (BANYULA)	21101	5555	WOKURNA	Y
EF03673	SNOWTOWN (CONDOWIE)	21015	5555	CONDOWIE	Y
EF03674	SNOWTOWN (RAYVILLE PARK)	21133		SNOWTOWN	Υ
EF03675	SPALDING	21047		SPALDING	Y
F03676	SPALDING SPALDING (BUNDALEER RESERVOIR)	21009		SPALDING	Y
		-			Y
EF03677	SPICER FLAT	22052		KOOLYWURTIE	
EF03678	ST KITTS	23360		ST KITTS	Υ
EF03679	STANSBURY	22017		STANSBURY	Υ
EF03680	STEINGARTEN VINEYARD (STEINGARTEN)	23146	5351	ROWLAND FLAT	Υ
EF03681	STENHOUSE BAY	22049	5577	INNESTON	N
EF03682	STOCKPORT (CLIFTON)	23370	5410	STOCKPORT	Y
EF03683	STOCKPORT (STOCKWELL ROAD BRIDGE)	23347		LIGHT PASS	Y
	STRATHALBYN	23747		STRATHALBYN	Y
EF03684		-			У
EF03685	STRATHALBYN RACECOURSE	24580		STRATHALBYN	_
EF03686	STRATHEARN	20055		MOOLEULOOLOO	N
EF03687	STREAKY BAY	18079	.5680	STREAKY BAY	N
EF03688	STRUAN	26082	5271	STRUAN	Υ
F03689	STURT VALE	20022	5440	STURT VALE	N
EF03690	SUTHERLANDS	24534	5374	SUTHERLANDS	Y
EF03691	SWAN REACH	24535		SWAN REACH	Y
EF03692	SWAN REACH (PONDEROSA)	24585		FISHER	Y
		24536		TAILEM BEND	Y
EF03693	TAILEM BEND	Contraction of the Contraction o			Y
EF03694	TAILEM BEND (RIVER DOWNS (NATURI))	24554		NATURI	
EF03695	TAILEM BEND (WOODLANDS)	24510	5254	CHAPMAN BORE	Υ
EF03696	TALDRA	24017	5333	TALDRA	Υ
EF03697	TANTANOOLA	26027	5280	TANTANOOLA	Υ
EF03698	TANUNDA	23318	5352	TANUNDA	Υ
EF03699	TAPLAN	24032	5333	TAPLAN	Υ
EF03700	TARCOOLA (COMMONWEALTH HILL)	16006	5710	COMMONWEALTH HILL	N
EF03701	TARCOOLA (MOBELLA)	16059		COMMONWEALTH HILL	N
		16031		MULGATHING	N
EF03702	TARCOOLA (MULGATHING)	-			
EF03703	TARCOOLA AERO	16098		TARCOOLA	N
EF03704	TARCOWIE	19043	5431	TARCOWIE	Υ
EF03705	TARCOWIE (OAKLANDS)	19117	5431	TARCOWIE	Υ
EF03706	TARLEE	23319	5411	TARLEE	Υ
EF03707	TARLEE (HAZELTON)	23365		GILES CORNER	Y
		23323		HAMILTON	Y
EF03708	TARNMA	-			Y
F03709	TEROWIE	21050		TEROWIE	
EF03710	THE TWINS STATION	16048		MCDOUALL PEAK	N
F03711	THEVENARD WIND	18200 N		NIL	N
EF03712	THURLGA	16046		THURLGA	N
EF03713	TICKERA	21110	5555	TICKERA	Y
EF03714	TIEYON	16095	5734	TIEYON	N
F03715	TINTINARA	25514		TINTINARA	Y
EF03716	TINTINARA (COLEBATCH DOWNS)	25526		COLEBATCH	Y
EF03717	TINTINARA (RICHARDS)	25546		TINTINARA	Y
		16047		TODMORDEN	N
FF03718	TODMORDEN	-			Y
EF03719	TRURO	24573		TRURO	
EF03720	TUMBY BAY	18086		TUMBY BAY	Y
EF03721	TUMBY BAY (WARRATTA VALE)	18091		LIPSON	Y
EF03722	TUMBY BAY (YADNARIE)	18203		TUMBY BAY	Υ
F03723	TWO WELLS	23028	5501	TWO WELLS	Υ
EF03724	UNGARRA	18088	5604	UNGARRA	Υ
EF03725	UNLEY (ROBERT'S STREET)	23119		UNLEY	Υ
EF03726	UPPER HERMITAGE	23806		UPPER HERMITAGE	Υ
		23750		URAIDLA	Y
F03727	URAIDLA	-		William Control	
EF03728	URAIDLA (SUTTON CREEK)	23905		URAIDLA	Y
EF03729	VERDUN	23866		VERDUN	Υ
EF03 7 30	VICTOR HARBOR (BERRIMA)	23834	5211	MOUNT JAGGED	Υ
EF03731	VICTOR HARBOR (ENCOUNTER BAY)	23804	5211	VICTOR HARBOR	Υ
EF03732	VICTOR HARBOR (RIVINGTON GRANGE)	23743	5211	BACK VALLEY	Y
EF03733	VICTOR HARBOR (WAITPINGA CLIFFS)	23889		WAITPINGA	N
		22839		VIVONNE BAY	N
EF03734	VIVONNE BAY (HIGHGATE)	115574400			Y
EF03735	WADDIKEE	18089		WADDIKEE	
EF03736	WAIKERIE (EREMOPHILA PARK)	24029		WOOLPUNDA	Υ
EF03737	WAIKERIE COUNCIL WORKS DEPOT	24038		WAIKERIE	Υ
	WALLAROO	22020	5556	WALLAROO	Υ
EF03738	WALLAROO				
EF03738 EF03739	WANILLA	18144	5607	WANILLA	Υ



TEF03741	WARRAMBOO	18090	5650	WARRAMBOO	Y
TEF03742	WATERFALL GULLY (WATERFALL)	23908	5064	WATERFALL GULLY	Υ
ТЕГО3743	WATERVALE	21054	5452	WATERVALE	Υ
TEF03744	WEETULTA	22058	5572	WEETULTA	Y
TEF03745	WELLINGTON (BRINKLEY SOUTH)	24572	5259	BRINKLEY	Y
TEF03746	WHARMINDA	18113	5603	WHARMINDA	Y
TEF03747	WHYALLA (BROADVIEW STATION)	18006		MIDDLEBACK RANGE	Y
TEF03748	WHYALLA (MOOLA)	18117		MIDDLEBACK RANGE	Y
TEF03749	WHYALLA (MOUNT YOUNG)	18221		MIDDLEBACK RANGE	Y
TEF03750	WHYALLA (MULLAQUANA)	18058		MIDDLEBACK RANGE	Y
	WHYALLA AERO	18120		MULLAQUANA	Y
TEF03751				WHYTE YARCOWIE	Y
TEF03752	WHYTE YARCOWIE	21055			
TEF03753	WHYTE-YARCOWIE (GUM PARK)	21120		CANOWIE BELT	Y
TEF03754	WIGTON FLAT (DOWLINGVILLE)	22048		DOWLINGVILLE	Y
TEF03755	WILKAWATT (NEWHOUSE FARM)	25539		LAMEROO	N
TEF03756	WILLALOOKA (NIOKA)	26107		WILLALOOKA	Y
TEF03757	WILLALOOKA (YARDOOKRA)	26088		WILLALOOKA	Y
TEF03758	WILLIAMSTOWN	23752	5351	WILLIAMSTOWN	Y
TEF03759	WILLIAMSTOWN (GLEN GILLIAN)	23756	5351	WILLIAMSTOWN	Υ
TEF03760	WILLIAMSTOWN (SOUTH PARA RESERVOIR)	23820	5351	WILLIAMSTOWN	Y
TEF03761	WILLOCHRA PLAIN (GUM GLEN)	19122	5433	WILLOCHRA	Υ
TEF03762	WILLUNGA	23753	5172	WILLUNGA	Y
TEF03763	WILLUNGA HILL	23857		WILLUNGA SOUTH	Y
	WILMINGTON	19048		WILMINGTON	Y
TEF03764		19103		WILMINGTON	Y
TEF03765	WILMINGTON (STONEHAVEN)	22,750,170			N
TEF03766	WILPENA (MARTINS WELL)	19111		MARTINS WELL	Y
TEF03767	WILPENA (ORAPARINNA)	19107		FLINDERS RANGES	
TEF03768	WILPENA POUND	19070		FLINDERS RANGES	Y
TEF03769	WIRRABARA	19052		WIRRABARA	Y
TEF03770	WIRRABARA FOREST	19053		WIRRABARA	Y
TEF03771	WIRRAMINNA HOMESTEAD	16062	5720	WIRRAMINNA	IN
TEF03772	WIRREGA (TAUNTON)	25518	5267	WIRREGA	Y
TEF03773	WIRRULLA	18094	5661	WIRRULLA	N
TEF03774	WIRRULLA (GAWLER VIEW)	18197	5661.	WALLALA	IN
TEF03775	WIRRULLA (PIMBENA)	18166	5680	NUNJIKOMPITA	IN
TEF03776	WOLSELEY	25519		WOLSELEY	Y
TEF03777	WOLSELEY (HONITON)	25561	5269	POOGINAGORIC	Y
TEF03778	WOODSIDE	23829		WOODSIDE	Y
	WOODSIDE (INVERBRACKIE)	24583		WOODSIDE	Y
TEF03779		23920		WOODSIDE	Y
TEF03780	WOODSIDE (WICKS ESTATE)	PERSON -			Y
TEF03781	WOOLGANGI	20025		WARNES	
TEF03782	WOOMERA (ARCOONA)	16000		ARCOONA	Y
TEF03783	WOOMERA (MAHANEWO)	16025		MAHANEWO	N
TEF03784	WOOMERA (OAKDEN HILLS)	16033		OAKDEN HILLS	Y
TEF03785	WOOMERA (PERNATTY STATION)	16036		PERNATTY	Y
TEF03786	WOOMERA (SOUTH GAP STATION)	16043	5720	SOUTH GAP	Y
TEF03787	WOOMERA AERODROME	16001	5710	WOOMERA	Y
TEF03788	WOOMERA PROFILER	16105	5710	COONDAMBO	N
TEF03789	WORLDS END (NARKUNDA)	21138	5381	HALLELUJAH HILLS	Y
TEF03790	WRATTONBULLY (JOEVILLE)	26075	5271	WRATTONBULLY	Y
TEF03791	WUDINNA	18095	5652	WUDINNA	Y
TEF03792	WUDINNA (LOOKOUT)	18167		WUDINNA	Y
TEF03793	WUDINNA AERO	18083		WUDINNA	Y
TEF03794	YACKA	21057		YACKA	Y
TEF03795	YALATA COMMUNITY	18161		YALATA	N
		18104	5605	YALLUNDA FLAT	Y
TEF03796	YALLUNDA FLAT (MEETIGILLY)	18098		YANINEE	Ÿ
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TEF03800	YARRAMBA	20059		YARRAMBA	N
TEF03801	YEELANA (BRIMPTON LAKE)	18005		MITCHELL	N
TEF03802	YEELANA (BROOKER)	18007	5607	BROOKER	Y
TEF03803	YEELANNA	18099		YEELANNA	Υ
TEF03804	YELLABINNA REGIONAL RESERVE (JACINTH-AMB	18222	5710	YELLABINNA	N
TEF03805	YONGALA	19062	5431	YONGALA	Y
TEF03806	YORKETOWN	22023		YORKETOWN	Y
TEF03807	YUDNAPINNA	16056		YUDNAPINNA	Y
TEF03808	YUNDI (MUNDAWORA)	23897		YUNDI	Y
	·	20051		MELTON STATION	N
TEF03809	YUNTA (MELTON)	20020		YUNTA	N
TEF03810	YUNTA (PANARAMITEE)	-		GRAMPUS	N
TEF03811	YUNTA (PARATOO)	20021			
TEF03812	YUNTA (TEETULPA STATION)	20061		YUNTA	N
TEF03813	YUNTA (WINNININNIE STATION)	20024		WINNININE	N
TEF03814	YUNTA AIRSTRIP	20062	5440	YUNTA	N





Basis of Preparation

AER Benchmarking

April 2014

Version FINAL RESPONSE







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Date Vo

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Description

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Approved By







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1. Introduction

On 28 November 2013, ElectraNet Pty Limited was served with a Regulatory Information Notice pursuant to Division 4 of Part 3 of the National Electricity (South Australia) Law (the RIN).

A requirement of the Benchmarking RIN set out in the Instructions and Definitions accompanying the RIN, is that ElectraNet in addition to providing to the AER a completed data template, must provide a 'Basis of Preparation' which explains for each variable inputted to the data template the basis upon which the input has been prepared.

In accordance with the requirements of the RIN, the following sections of this report provides ElectraNet's basis of preparation for all variables inputted to the data template accompanying this report. Consistent with the Instructions and definitions this basis of preparation addresses the following:

- How the information provided is consistent with the requirements of the notice;
- Explains the source from which ElectraNet obtained the information provided;
- Explains the methodology ElectraNet applied to provide the required information, including any assumptions ElectraNet made;
- Where ElectraNet could not provide an input for a variable using actual information and an estimate was required:
 - Why an estimate was required, including why is was not possible for ElectraNet to use actual information; and
 - The basis for the estimate, including the approach used, assumptions made and reasons why the estimate is ElectraNet's best estimate, given the information sought in the notice.
- In the case of financial information, an explanation if applicable, of the nature and impact of any accounting changes adopted by ElectraNet which have materially changed during any of the regulatory years covered by the notice.

Note that this basis of preparation relates to ElectraNet's 'first response' and as such under the notice, the AER does not require the numbers to be audited or verified by statutory declaration. ElectraNet are still in the process of obtaining assurance sign-off and therefore this basis of preparation and accompanying data remains subject to change.

In accordance with the requirements of the RIN, ElectraNet will submit a final audited and verified version of the data template and Basis of Preparation and accompanying audit report on 30 April 2014.





2. Revenue

2.1 Revenue grouping by chargeable quantity (TREV0101-TREV0110)

2.1.1 Data requirement

ElectraNet is required under the instructions and definitions for the final economic benchmarking RIN to report revenues allocated to the chargeable quantity that most closely reflects the basis upon which the revenue was charged by ElectraNet to customers.

Consistent with the RIN instructions and definitions, ElectraNet has reported revenue by chargeable quantity on the following basis:

- Revenues from Exit services where they are bill on a fixed annual charge based on location only 'From Fixed Customer (Exit Point) charges' (TREV0101),
- Revenues from Entry services where they are bill on a fixed annual charge based on location only 'From Fixed Generator (Entry Point) charges' (TREV0103),
- Revenues from TUOS Usage services (also referred to as TUOS Locational from 2009-10) where they are bill on a locational "nominated / agreed" demand basis against 'From Fixed Energy Usage Charges (Charge per day basis)' (TREV0105),
- Revenues from Common Service and TUOS General charges (also referred to TUOS Non-location from 2009-10) where they are billed on an energy accumulation basis against 'From Energy based Common Service and TUOS General Charges' (TREV0107);
- Revenues from Common Service and TUOS General charges (also referred to TUOS Non-location from 2009-10) where they are billed on a "nominated / agreed" demand basis against 'From Fixed Demand based Usage Charges' (TREV0108); and
- Revenues from other source, is revenue from Settlements Residues Auction (SRA) Proceeds, intra-regional settlement residues, under/over recovery of revenue from previous years plus interest (TREV0110).

Please note that ElectraNet does not charge revenue from the following groups:

- From Variable customer (Exit Point) charges, TREV0102;
- From Variable Generator (Entry Point), TREV0104;
- From Variable Energy Usage Charges (Charge per day basis), TREV0106; and
- From Variable Demand based Usage Charges TREV0109.

2.1.2 Data source and methodology

ElectraNet has sourced the revenue information for table 2.1 directly from the Regulatory Financial Reports for the respective years.





Removal of Murraylink revenue (not ElectraNet's revenue): TREV0105, TREV0107 and TREV0108

ElectraNet is the Co-ordinating Network Service Provider for South Australia and collects both ElectraNet's and the Murraylink Transmission Company (MTC)'s regulated revenue entitlements via ElectraNet's prescribed transmission service prices.

As the Regulatory Financial Reports show revenue charge categories that are inclusive of revenue collected by ElectraNet on behalf of MTC, ElectraNet have adjusted the impacted categories.

MTC is required to advise ElectraNet annually of the Aggregate Annual Revenue Requirement (AARR) and optimised replacement cost (ORC) for its transmission system assets which are used to provide prescribed transmission services within the South Australian region. MTC's revenue must be removed from the revenue groupings. Given revenue charged is calculated using the AARR and ORC, we have used this to remove the revenue on the same basis from the relevant categories in table 2.1 of the data template. Revenue amount for Murraylink for each financial year is shown in Table 2-1: Notification of Murraylink revenue amount for each financial year below:

Table 2-1: Notification of Murraylink revenue amount for each financial year

MTC Allocation by Class of Service (GST exclusive)	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
Entry service ORC	2	*	5 ÷ 3	=	-	-		-
Exit service ORC	•			æ		•	E	:: :::::::::::::::::::::::::::::::::::
TUOS Service ORC	43,652,411	43,652,411	43,652,411	43,652,411	43,652,411	43,652,411	43,652,411	43,652,411
Common Service ORC	2,678,689	2,678,689	2,678,689	2,678,689	2,678,689	2,678,689	2,678,689	2,678,689
Total ORC	46,311,100	46,311,100	46,311,100	46,311,100	46,311,100	46,311,100	46,311,100	46,311,100
AARR	4,845,520	4,977,972	5,084,766	5,147,603	5,420,161	5,386,652	5,463,472	5,549,744

Split of Common service charges and TUOS general charges in line with the RIN revenue categories

Common service charges and TUOS general charges as reported in the Regulatory Financial Report for each respective year includes both "Energy based Common Service



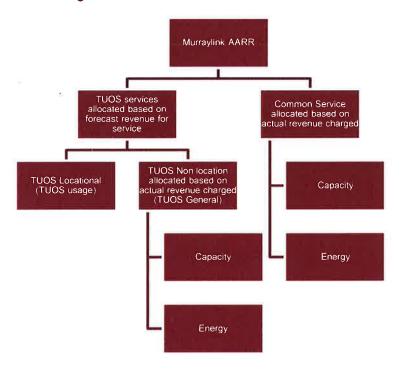


and General Charges" (TREV0107) and "Fixed Demand based Usage Charges" (TREV0108).

The split between TREV0107 and TREV0108 have been sourced from customer invoices where these charges are individually identified.

Overall, after factoring in the MTC adjustment (detailed above), the sum of Common service charges and TUOS general charges per the Regulatory Financial Reports agree to the sum of variables TREV0107 and TREV0108. The breakdown of MTC AARR service charges is presented in Figure 2-1: MTC service charges below:

Figure 2-1: MTC service charges



2.1.3 Basis of estimation

There is no estimation involved in table 2.1.

2.1.4 Changes to accounting policies

There has been no change to accounting policies that impact revenue by chargeable quantities.

2.2 Revenue grouping by type of connected equipment (TREV0201-0205)

2.2.1 Data requirement

ElectraNet is required under the instructions and definitions for the final economic benchmarking RIN to report in accordance with the type of connection equipment.



External project work and gross proceeds from the sale of assets where related to Prescribed Transmission Services were reported as "other revenue (TREV0205)."

Consistent with the RIN instructions and definitions, ElectraNet has reported revenue by chargeable quantity on the following basis:

- From other connected transmission networks (TREV0201), ElectraNet does not have any other regulated connections to transmission networks thus this is zero for all years.
- From Distribution networks (TREV0202), is revenue charged to the South Australian Distribution Network Service Provider (DNSP) they are referred to as ETSA Utilities or ETSA Transmission Service Charges in the Customer totals sheets for the respective years
- From Directly Connected end users (TREV0203), is revenue charged to directly connected customer of the ElectraNet network it does not contain the Distribution networks customer.
- Revenues from Generators (TREV0204) is the same as (TREV0103), Entry services where they are bill on a fixed annual charge based on location only 'From Fixed Generator (Entry Point) charges' as generators are only charged Entry Services.
- Other revenue (TREV0205) is the same as (TREV0110), Revenues from other sources, this is revenue from SRA Auction Proceeds intra-regional settlement residues, under/over recovery of revenue from previous years plus interest.

2.2.2 Data source and methodology

ElectraNet has sourced the revenue information for TREV0202 through to TREV0204 from customer invoices. Based on customer invoice information, ElectraNet have summarised revenue by type of charge on an annual basis for each customer. The total revenue by charge has been reconciled to the total revenue reported in the Regulatory Financial reports.TREV0205 has been sourced directly from the respective Regulatory Financial Reports.

As stated in 2.1, these revenue numbers contain the revenue collected for both ElectraNet and MTC, thus MTC's revenue must be removed for the purposes of this RIN. ElectraNet collect revenue on behalf of MTC from only Distribution Networks and directly connected end-users (TREV0202 and TREV0203).

The adjustment required to TREV0202 and TREV0203 to remove the AARR for MTC is on the same basis as detailed in section 2.1.2 of this document. The split of revenue collected on behalf of MTC (as advised in the annual AARR letters) between TREV0202 and TREV0203 is based on actual revenue charged by connected equipment type. No estimation or assumptions are involved.

As TREV0204 relates only to entry charges, this line item does not need to be adjusted, nor does the TREV0205 need to be adjusted for Murraylink's revenue.

2.2.3 Basis of estimation

There is no estimation involved in table 2.2.





2.2.4 Changes to accounting policies

There has been no change to accounting policies that impact revenue by chargeable quantities.

2.3 Revenue (penalties) allowed (deducted) through incentive schemes (TREV0301-TREV0303)

2.3.1 Data requirement

ElectraNet is required under the instructions and definitions for the final economic benchmarking RIN to report penalties or rewards of incentive schemes.

Consistent with the RIN instructions and definitions, revenues and penalties from incentives schemes are reported in the year in which the penalty or reward was applied as opposed to the year it was gained.

2.3.2 Data source and methodology

ElectraNet has reported revenue on the following basis from the following sources:

- EBSS (TREV0301), ElectraNet obtained these figures directly from Table 7.9
 AER's final decision on annual building block revenue requirement (\$m, nominal)
 labelled Opex efficiency (glide path) allowance from the Final decision ElectraNet
 transmission determination 2008-09 to 2012-13 dated 11 April 2008.
- STIPS (TREV0302), is the additional revenue or penalty the AER approved as part of the annual Transmission service standards review. The source of the data is taken directly from the letters provided by the AER to ElectraNet annual. The letters are as follows:
 - Letter dated 3 May 2006 Service standard review for 2005, revenue for the financial year 2006-07
 - Letter dated 24 April 2007 Transmission service standards compliance review for 2006, revenue for the financial year 2007-08
 - Letter dated 28 April 2008 Transmission service standards compliance review for 2007, revenue for the financial year 2008-09
 - Letter dated 28 April 2009 Transmission service standards review for 2008, revenue for the financial year 2009-10
 - Letter dated 30 April 2010 Transmission service standards review for 2009, revenue for the financial year 2010-11
 - Letter dated 20 April 2011 Transmission service standards review for 2010, revenue for the financial year 2011-12
 - Letter dated 23 April 2012 Transmission service standards review for 2011, revenue for the financial year 2012-13
- Other (TREV0303) ElectraNet does not have any other schemes





2.3.3 Basis of estimation

There is no estimation involved in table 2.3.

2.3.4 Changes to accounting policies

There has been no change to accounting policies that impact revenue through incentive schemes.



3. Operating Expenditure ('Opex')

3.1 Operating expenditure categories (TOPEX0101-TOPEX0103A)

3.1.1 Data requirement

As per the AER's RIN requirements, given that ElectraNet's cost allocation approach, basis of preparation for its regulatory accounting statements, or response to the information guidelines have not changed across the Benchmarking reporting period, ElectraNet have not filled out table 3.1.1 but rather used table 3.1.2 for section 3.1.

Table 3.1.2 requires ElectraNet to report Opex activities (for example: network, operations, asset management support and field maintenance) reported in its Information Guidelines response for individual Regulatory Year. For the avoidance of doubt this means that

- The accounting principles applied by the NSP to complete its regulatory Financial Statements for each individual Regulatory Year must be applied when reporting Opex for that Regulatory Year.
- Opex reported must be prepared in a consistent manner to that of Opex reported in the Regulatory Financial Statements.
- Opex line items reported in Table 3.1.2 should equal Opex line items reported in the Regulatory Accounting Statements for each Regulatory Year.

ElectraNet must report, for all Regulatory Years, Opex in accordance with its Cost Allocation Approach and the Regulatory Accounting Statements that were in effect for the relevant Regulatory Year.

Opex must be reported in accordance with the categories for the relevant Regulatory Year and should directly reconcile to the Opex in ElectraNet's response to the Information Guidelines for that year.

The information provided by ElectraNet is sourced from regulatory reporting for the 2009-2013 regulatory period and agrees to the regulatory financial reports for each reported year. Comparable information is provided for the 2006-2008 period.

3.1.2 Data source and methodology

ElectraNet has sourced the opex information from the Regulatory Financial Reports – Historic Opex by Expenditure Category schedule for the years 2009 to 2013. For the 2006 to 2008 years, ElectraNet has compiled comparable information from the historical data available.

3.1.3 Basis of estimation

No estimates have been made in the compilation of this information. Estimates and judgements may be required in accordance with the Transmission Network Service Providers Information Guidelines when compiling the underlying data within the relevant regulatory financial reports. ElectraNet notes that there have been changes to the





business structure and improvements to financial systems which have occurred during the reported period. After any change, ElectraNet has endeavoured to ensure that reported regulatory opex data is as consistent as possible with reset decisions and reporting in prior years.

3.1.4 Changes to accounting policies

There has been a change to the accounting for retirement benefit obligations which was first applied from 1 July 2011. The nature and impact of this change to opex is disclosed in detail within section 3.2.4 Provisions – Changes to accounting policy.

There have been no changes to ElectraNet's cost allocation approach and regulatory accounting principles or policies which affect historical opex reporting.

3.2 Provisions (TOPEX02-TOPEX0212)

3.2.1 Data requirement

ElectraNet must report, for all Regulatory Years, Financial Information on provisions for Prescribed Transmission Services in accordance with the Cost Allocation Approach and the Information Guidelines that were in effect for the relevant Regulatory Year.

ElectraNet must report Financial Information for each of its provisions.

Provisions must be reported in accordance with the regulatory principles and policies within the Information Guidelines for each Regulatory Year.

Financial information on provisions should reconcile to the reported amounts for provisions in the Regulatory Financial Reports for each Regulatory Year.

3.2.2 Data source and methodology

Information on annual and long service leave and self-insurance provisions has been sourced from the Regulatory Financial Report for each financial year.

Information on the retirement benefit obligation provision has been extracted from ElectraNet's Statutory Financial Reports for each financial year. Information has been extracted from the Statutory Financial Reports as there is more detailed information provided to satisfy the data requirements of the RIN (e.g. variables TOPEX0205B and TOPEX0211B).

Leave provisions

The information extracted from the Regulatory Financial Reports is tabled for each year from the Provisions Reconciliation – Prescribed Transmission Services.

Each year there is calculation of the proportion of ElectraNet's cost applicable to prescribed network services. This proportion varies each year. The amounts tabled are the balances and movements applicable to prescribed network services.

Given the proportion of prescribed network services to total network services changes each year, an adjustment is made to the "increases to provisions' row to ensure the







opening balance of the current year is equal to the closing balance of the preceding year. The adjustment is made up of the difference in the current and prior year's prescribed network services percentage, multiplied by the closing value of the preceding year.

To derive the split of provisions between capital expenditure (capex) and opex, ElectraNet have made an estimation based on the labour activity allocation to capex and opex costs. For further details of the estimation refer to 3.2.3 Basis of Estimation.

For long service leave (LSL), for each year from 2009 onwards, ElectraNet has calculated the provision movement due to the change in the annual discount rate applied to the leave accrued for employees who have not reached the full LSL entitlement period of seven years. The previous year's discount rate has been substituted into each annual LSL calculation of the current year to derive the liability using the previous discount rate. The recalculated provision amount is subtracted from the current year's actual calculation to derive the movement.

ElectraNet uses the Commonwealth Government five year bond rate as the annual discount rate. The movement due to the discount rate is shown in TOPEX205A for opex and TOPEX211A for capex, with a corresponding offset in TOPEX202A and TOPEX208A.

Retirement benefit obligation

Information is extracted from the detailed notes which form part of the annual ElectraNet Statutory Financial Reports. The statutory information is more comprehensive than the information disclosed in the annual Regulatory Financial Report.

The information extracted from the ElectraNet Statutory Financial Report is adjusted to the portion applicable to prescribed network services based on the prescribed network services percentage disclosed in the Regulatory Financial Report. Opening and closing balances of the retirement benefit obligation provision agrees with the Regulatory Financial Report balances for each year.

The detailed extracted information is summarised in the format required in table 3.2 of the data template in accordance with the mapping shown in Figure 3-1: Retirement benefit obligations mapping on the following page:



Figure 3-1: Retirement benefit obligations mapping

TOPEX02B Retirement benefit obligations analysis

	RIN	analysis	
Opex	Сарех	Description	Statutory financial report analysis
TOPEX0201B	TOPEX0207B	Opening balance	Net defined benefit liability/(asset) at start of year
			Current service cost
			Interest cost
			Expected return on plan assets
TOPEX0202B	TOPEX0208B	Increases to the provision	Interest income
			Contributions by scheme participants
-:			Benefits paid
			Taxes & premiums paid
		Amounts used (that is, incurred	
TOPEX0203B	TOPEX0209B	and charged against the	Employer contributions
		provision) during the period	
TOPEX0204B	TOPE X0210B	Unused amounts reversed during	N/Δ
TOT EXOZUAD	TOT ENDETOD	the period	
		The increase during the period in	Actuarial gains/(losses) demographic assumption changes
		the discounted amount arising	Actuarial gains/(losses) financial assumption changes
TOPEX0205B	TOPEX0211B	from the passage of time and	Fair value actuarial gains/(losses)
		the effect of any change in the	Present value actuarial gains/(losses)
		discount rate.	Transfers in
TOPEX0206B	TOPEX0212B	Closing balance	Net defined benefit liability/(asset) at end of year

Increase in the retirement benefit obligation provision reflects movements that have been included within historical opex reported.

Amounts used reflect payments by ElectraNet in relation to the retirement benefit obligation.

The increase during the period in the discounted amount arising from the passage of time and the effect of any change in the discount rate includes items presented in other comprehensive income within the Statutory Financial Reports which are not included in reported historical opex.

Each year ElectraNet calculates the proportion of cost applicable to prescribed network services. This proportion varies each year. The amounts tabled are the balances and movements applicable to prescribed network services.

Given the proportion of prescribed network services to total network services changes each year, an adjustment is made to the "increases to provisions' row to ensure the opening balance of the current year is equal to the closing balance of the preceding year. The adjustment is made up of the difference in the current and prior year's prescribed network services percentage, multiplied by the closing value of the preceding year.

Self-insurance

This provision has been reported from 2008/09 onwards and is reported only in each year's Regulatory Financial Report.

Self-insurance is only applicable to opex and therefore no apportionment has been applied between capex and opex.



3.2.3 Basis of estimation

Estimates and judgements are required when compiling the underlying data within the relevant statutory financial reports for leave and retirement benefit obligation provisions. These are made in accordance with the relevant Australian Accounting Standards.

Estimates and judgements may be required in accordance with the Information Guidelines when compiling the underlying data for self-insurance provisions disclosed in the relevant regulatory financial reports.

ElectraNet has calculated a capex and opex split for provisions for the years 2011 to 2013. The cost allocation is derived from the ElectraNet cost accounting system in which labour activities are allocated to capex and opex cost collectors. Using standard SAP report S_ALR_87013611, ElectraNet has analysed primary costs by activity postings to capex and opex, to derive the annual apportionment.

Prior to 2011 ElectraNet operated a less detailed costing system and therefore the same estimation methodology cannot be applied. For the years 2006 to 2010 a 50/50 split has been assumed which was applied during the last revenue reset determination for 2009 to 2013.

3.2.4 Changes to accounting policies

Effective 1 July 2011, ElectraNet adopted the revised AASB 119 Employee Benefits standard as issued by the Australian Accounting Standards Board within their Statutory Financial Reports.

The revised accounting standard changed the way retirement benefit obligations were measured and disclosed.

ElectraNet obtained actuary reports which measured the impact of the change in the accounting standard for 2011 & 2012. The impact of these changes is summarised in





Figure 3-2: Retirement benefit obligations analysis on the following page:



Figure 3-2: Retirement benefit obligations analysis

TOPEX02B	Retirement benefit obligations analysis	With AASB119 revision	Before AASB119 revision		With AASB119 revision	Before AASB119 revision	
	RIN analysis	Reported in RIN	Restated	Change	Restated	Reported in RIN	Change
Opex	Description	2012	2012	2012	2011	2011	2011
TOPEX0201B	Opening balance	7,118	7,118	0	8,320	8,320	0
TOPEX0202B	Increases to the provision	871	496	375	1,078	647	431
LIOPE XUZUSB	Amounts used (that is, incurred and charged against the provision) during the period	(1,011)	(1,011)	0	(839)	(839)	0
TOPEX0204B	Unused amounts reversed during the period	0	0	0	0	0	0
	The increase during the period in the discounted amount arising from the passage of time and the effect of any change in the discount rate.	8,671	9,046	(375)	(843)	(412)	(431)
TOPEX0206B	Closing balance	15,649	15,649	0	7,716	7,716	0

		Reported in RIN	Restated	Change	Restated	Reported in RIN	Change
Capex	Description	2012	2012	2012	2011	2011	2011
TOPEX0207B	Opening balance	8,424	8,424	0	8,438	8,438	0
TOPEX0208B	Increases to the provision	1,031	587	444	1,094	657	437
TOPEX0209B	Amounts used (that is, incurred and charged against the provision) during the period	(1,197)	(1,197)	0	(851)	(851)	0
TOPEX0210B	Unused amounts reversed during the period	0	0	0	0	0	0
TOPEX0211B	The increase during the period in the discounted amount arising from the passage of time and the effect of any change in the discount rate.	10,263	10,707	(444)	(855)	(418)	(437)
TOPEX0212B	Closing balance	18,521	18,521	0	7,826	7,826	0



4. Assets (RAB)

4.1 Regulatory asset base values

Table 4.1 in the template is the aggregate of the Asset value roll forward information in Table 4.2.

For details of the data requirement, source, methodology, basis of estimation and changes to accounting policies, refer to the details below within 4.2 Asset value roll forward.

4.2 Asset value roll forward

4.2.1 Data requirement

ElectraNet must report RAB values in accordance with the standard approach per the RIN and the Assets (RAB) Financial Reporting Framework.

RAB Financial Information must be allocated from, and reconcile to, the 'as commissioned' RAB. RAB Financial Information must reconcile to:

- For years prior to any AER determination of RAB values, determinations made in relation to RAB values made by the previous jurisdictional regulator.
- Any decision that the AER has made in relation to RAB values unless that
 decision incorporates forecasts (for example, for the last year of the previous
 regulatory period) in which case those forecast values should be replaced with
 actual values where possible. Actual values must reconcile to amounts reported in
 the response to the Information Guidelines.
- For years where the AER has not made a decision on values for the RAB, RAB values must be prepared in accordance with the RAB Framework. In this circumstance, actual additions (recognised in the RAB) and disposals must reconcile to amounts reported in the response to the Information Guidelines.

4.2.2 Data source

The information provided by ElectraNet is sourced from the Roll Forward Models (RFM) for the 2003-2008 and 2008-2013 revenue reset periods which have previously been submitted to the AER as part of their revenue determinations.

Forecast values for the year ended 30 June 2013 have been replaced with actual commissioned values that were used in determining the incurred additions in the regulatory financial report submitted to the AER for the period then ended.

Forecast values for the year ended 30 June 2008 have been replaced with actual values and adjusted for during the 30 June 2013 regulatory year as reported in the RFM 2008 – 2013 submitted to the AER.



4.2.3 Methodology

ElectraNet has extracted the RFM information for opening balances, additions, disposals, inflation, depreciation and closing balances directly from the 2003-2008 and 2008-2013 RFMs, and the values used in preparing the regulatory financial report for the year ended 30 June 2013

ElectraNet has mapped the regulatory asset classes shown in the RFM to the RIN categories as shown in Table 4-1: Mapping regulated asset classes to RIN asset categories below:

Table 4-1: Mapping regulated asset classes to RIN asset categories

RIN asset category	Regulated asset class			
Overhead transmission assets	Transmission lines - Overhead			
	Refurbishment			
Underground transmission assets	Transmission lines - Underground			
Transmission switchyards, substations	Substation Establishment			
	Substation Primary Plant			
	Refurbishment Projects 2008-2013			
	Land - Substations			
	Accelerated Depreciation			
Easements	Easements			
Other assets with long lives	Substation Secondary Systems - Electromechanical			
	Substation Secondary Systems - Electronic			
	Substation Demountable Buildings			
	Substation Fences			
	Communications - Civil			
	Communications - Other			
	Commercial Buildings			
	Land - Other long life assets			
	Office furniture, movable plant, and misc			
	Capital Work in Progress			
	Equity Raising Cost - 2003 Opening RAB and 2003-08 capex			
	Equity Raising Cost 2013-2018			
Other assets with short lives	Network Switching Centres			
	Computers, software, and office machines			

The classes of assets previously reported in the 2003-2008 and 2008-2013 RFMs, and the regulatory financial report for the year ended 30 June 2013 are consistent with the RIN asset categories above, except for Land.

Split of land to satisfy the RIN asset categories

The RIN requires Land to be split by, Land – Substations and Land – Other long life assets.

Substation land is included in the "Transmission switchyards and substations" RIN asset category. Other land is included in the "Other assets with long lives" RIN asset category. Other land comprises commercial land for offices and parking, in addition to strategic land purchased in advance of provision of substation assets.

ElectraNet have allocated each parcel of land per ElectraNet's SAP fixed asset register between the two classes based on the actual land use.



This is the most accurate basis of splitting land values between the RIN asset categories given it is based on the actual use of land – i.e. for substations or other purposes. ElectraNet have not adopted the standard approach per the RIN Instructions and Definitions document as the depreciated replacement cost estimates are not applicable to land, and there is insufficient information in the RAB to do so.

4.2.4 Basis of estimation

In some instances, a parcel of land per ElectraNet's fixed asset register comprises substation and other commercial land. Therefore an apportionment is required in order to allocate the value of the parcel of land between the two RIN asset categories. This has been performed based on the land area and its use per area apportionment from survey or the ElectraNet geographical information system (GIS).

This is the best available estimate as it relies on historical accounting records for the book value of the total parcel of land. Two apportionments rely on titles and independent land survey information. The third apportionment relies on the land title and a GIS area calculation.

ElectraNet has calculated an apportionment percentage of total land additions from its fixed asset register between "Transmission switchyards and substations" and "Other assets with long lives". The apportionment percentage is applied to the RFM land additions. Due to the "Difference Between Actual and Forecast Net Capex" and the "Return on Difference – Net Capex" relating to 2008 which are adjusted for in 2013 year within the RFM, the calculation allows for the land asset additions and related CPI inflation for the 2008 year to be adjusted out of the 2008 to 2012 years and to be added into the 2013 land asset category in the RAB. These 2008 land additions were included in the "Difference Between Actual and Forecast Net Capex" in the 2008-2013 RFM. The related "Return on Difference – Net Capex" has also been apportioned between "Transmission switchyards and substations" and "Other assets with long lives" and adjusted in the 2013 year.

A minor adjustment is required to the additions apportionment to reconcile to the closing balance split of land between "Transmission switchyards and substations" and "Other assets with long lives". This adjustment is required to ensure the closing balance of land apportioned to "Transmission switchyards and substations" and "Other assets with long lives" for each year is equal to the closing balances derived by adding through opening balance, additions, disposals and regulatory depreciation.

The land values apportioned to the "Transmission switchyards and substations" and "Other assets with long lives" categories are shown in



Table 4-2: Land value apportionment on the following page:



Table 4-2: Land value apportionment

Closing value (\$'000)	2006	2007	2008	2009	2010	2011	2012	2013
Land - transmission switchyards & substations	9,629	9,934	10,502	10,867	11,625	11,954	12,354	24,783
Land - other assets with long lives	1,138	1,174	1,241	1,329	1,948	667	3,386	27,440
Land total	10,767	11,108	11,743	12,196	13,573	12,621	15,739	52,223
Substation land %	89.4%	89.4%	89.4%	89.1%	85.6%	94.7%	78.5%	47.5%

4.2.5 Changes to accounting policies

There are no changes to accounting policies which impact ElectraNet's RAB values.

4.3 Total disaggregated RAB asset values

4.3.1 Data requirement

ElectraNet must report average RAB Asset values that have been disaggregated into the categories in this table. These must be calculated as the average of the opening and closing RAB values for the relevant Regulatory Year for each of the RAB Asset categories and should be directly reconcilable to the opening and closing values in Table 4.2 per the template for the relevant categories.

The information provided by ElectraNet is sourced from the Roll Forward Models for the 2003-2008 and 2008-2013 revenue reset periods.

4.3.2 Data source

ElectraNet has sourced the opening and closing balances for each of the RIN asset categories as reported in table 4.2 of the data template, asset value roll forward.

4.3.3 Methodology

ElectraNet has averaged the opening and closing balances for each of the RIN asset categories in table 4.2 of the data template, asset value roll forward, in accordance with the RIN requirements.

4.3.4 Basis of estimation

No estimation has been applied to calculate the data presented in table 4.3 of the data template.

4.3.5 Changes to accounting policies

There are no changes to accounting policies which impact ElectraNet's RAB values.



4.4 Asset lives

4.4.1 Data requirement

In relation to Table 4.4.1 'Asset Lives – estimated service life of new assets' and Table 4.4.2 'Asset lives – estimated residual service life', ElectraNet must report asset lives for all RAB Assets in accordance with the category definitions provided in chapter 9 in the RIN.

The information provided by ElectraNet is sourced from the detailed asset records to which regulated service lives have been applied and remaining lives calculated.

4.4.2 Data source

ElectraNet has extracted detailed asset information from its SAP fixed asset register.

Regulatory asset lives used are approved by the AER.

4.4.3 Methodology

ElectraNet has used the detailed asset information contained in its fixed asset register for these calculations. This allows a standard basis of calculation for service and remaining lives whereas the RAB contains an averaged remaining service life for each asset class, which would allow a service life calculation but not an average remaining life calculation.

ElectraNet has mapped its asset register asset classes to RFM asset classes and then to the RIN asset categories.

Work in progress assets are excluded from the calculations. These assets are not complete and their cost is not yet allocated to asset classes in ElectraNet's fixed asset register.

Land and easement assets are excluded from the calculations, because they do not have a finite life.

Equity raising costs and accelerated depreciation costs are excluded. These assets are not physical assets with a service life and are not incorporated in ElectraNet's fixed asset register.

The RFM accelerated depreciation asset class is used for reclassifying assets which are intended to be replaced in the next regulatory period (2013-2018). This does not reflect the historical service or residual service lives of those assets and consequently these assets are included in their original asset class.

Table 4.4.1

Regulated asset class service lives have been applied to individual assets. For each financial year covered by the RIN, the service years are multiplied by the asset net book values (NBV) to calculate \$_service_years for each asset. For each RIN asset category, the \$_service_years are aggregated then divided by the aggregated NBV, to give an average service life in years.



Table 4.4.2

Regulated asset class service lives have been applied to individual assets. For each year covered by the RIN, the remaining regulated life of each individual asset is calculated with reference to the asset register acquisition date and the RFM asset class service life. For each financial year the remaining lives in years are multiplied by the asset net book values (NBV) to calculate \$_remaining_years for each asset. For each RIN asset category, the \$_remaining_years are aggregated then divided by the aggregated NBV, to give an average remaining life in years.

4.4.4 Basis of estimation

ElectraNet has used the regulated lives per the RAB asset classes. No estimation is involved.

4.4.5 Changes to accounting policies

There are no changes to accounting policies which impact ElectraNet's asset lives.



5. Operational Data

5.1 Energy delivery (TOPED0101-TOPED0103)

5.1.1 Data requirement

According to Economic Benchmarking RIN for Transmission Network Services Provider Instructions and Definitions November 2013 Chapter 5 Section 5.1 ElectraNet are required to report the amount of electricity transported through ElectraNet's network in the relevant Regulatory Year (measured in GWh). This must be as metered at the downstream settlement location rather than the import location to ElectraNet's network. Energy delivered must be actual energy delivered data, unless this is unavailable.

Energy delivery 'To other connected transmission networks' (TOPED0101) must include both imported and exported energy.

Where energy delivery 'To directly connected end-users' (TOPED0103) is confidential, in the public version of the RIN Templates, cells associated with this Variable should be blacked out and energy delivered that would otherwise be reported as part of TOPED0103 must be included in energy delivered 'To Distribution networks' (TOPED0102).

5.1.2 Data source and methodology

National Grid Metering (NGM) data on which the NEM financial settlement is based has been used. This has been previously Quality Controlled by the Metering Data Agent (meter reader) and by the Australian Energy Market Operator (AEMO) prior to use in NEM settlement. It is also checked weekly by ElectraNet's internal processes for reasonableness of Transmission Loss Factor.

NGM Data is extracted from the ElectraNet Oracle database by classification of:

- Generators;
- Interconnectors; and
- Load connections: Wholesale (directly connected end-users) and Distribution.

The extracted data is used to calculate the required RIN parameters on yearly basis via appropriate formulae, following Chapter 9 Definitions of the RIN Instructions and Definitions wherever appropriate.

5.1.3 Basis of estimation

N/A

5.1.4 Changes to accounting policies

N/A – Information reported within 5.1 of the data template relates to non-financial information.





5.2 Connection point numbers

5.2.1 Data requirement

Connection point numbers must be reported as the average of connection point numbers in the relevant Regulatory Year under system normal conditions. The average is calculated as the average of the number of connection points on the first day of the Regulatory Year and on the last day of the Regulatory Year.

ElectraNet must report the number of entry and exit points at each voltage level. ElectraNet must add additional rows as necessary to Table 5.2 to report each voltage level for entry or exit points.

5.2.2 Data source and methodology

Information on all ElectraNet substations was extracted from ElectraNet's SAP Network Statistics report to establish functional location, name, substation start-up date and voltage of the.

System switching diagrams (SSDs) were downloaded from ElectraNet's drawing management system, SPF and the number of unique customers was identified on the SSDs to determine Entry and Exit connection points.

The Network Statistics report was used to identify the SSDs to ensure all substations were captured.

Where multiple voltages for entry and exits exist, new records were manually added and any additional commentary prepared based on the review of single line diagrams.

5.2.3 Basis of estimation

For the basis of this estimation, Connection Point is defined as each unique customer. In the case where a substation has transformers feeding different subsystems, each subsystem has been counted as a separate connection point.

The connection point count includes both regulated and unregulated connection points.

Connection point voltage has been taken to mean the voltage at the high side of the connection transformer, that is, the voltage seen on the ElectraNet side or if applicable the voltage of the line or cable where it is the connection between customers or subsystems.

ElectraNet notes that an alternate basis of estimation would be to count the number of network metering identifiers which are at the physical point of connection to customers. This would result in a materially higher number than the methodology chosen. We have been guided in our choice of estimation methodology by the by the list of connection points in the South Australian Electricity Transmission Code.

Consistent with the email correspondence provided by Andrew Ley from the AER on 12 February 2014, interconnectors have been treated as an exit point.





5.2.4 Changes to accounting policies

N/A – Information reported within 5.2 of the data template relates to non-financial information.

5.3 System demand (TOPSD0101-TOPSD0308)

5.3.1 Annual system maximum demand characteristics (TOPSD0101-TOPDS0206)

5.3.1.1 Data requirement

Table 5.3 of the data template must be completed in accordance with the Economic Benchmarking RIN for Transmission Network Services Provider Instructions and Definitions November 2013 Chapter 9. ElectraNet must provide inputs for these cells if it calculates historical Weather Adjusted Maximum Demands.

Where ElectraNet does not calculate Weather Adjusted Maximum Demands it may estimate the historical Weather Adjusted data or shade the cells black. For Subsequent Regulatory Years ElectraNet will be required to provide Weather Adjusted Maximum Demand on an ongoing basis in accordance with best regulatory practice weather adjustment methodologies.

5.3.1.2 Data source and methodology

National Grid Metering (NGM) data on which the NEM financial settlement is based has been used. This has been previously Quality Controlled by the Metering Data Agent (meter reader) and by AEMO prior to use in NEM settlement. It is also checked weekly by ElectraNet's internal processes for reasonableness of Transmission Loss Factor.

NGM Data is extracted from the ElectraNet Oracle by classification of:

- Interconnectors; and
- Load connections: Wholesale (directly connected end-users) and Distribution.

The extracted data is used to calculate the required RIN parameters via appropriate formulae, following Chapter 9 Definitions of the RIN Instructions and Definitions wherever appropriate.

Both calculations on National Metering Identifier level and Substation level have been considered and we believed that the Substation level base calculation satisfies the intent of the requirement.

The interconnector contribution to maximum MW demand has been included only for those half hours when the interconnector is acting as a load (export to Victoria).

The interconnector contribution to maximum MVA demand has been included only for those half hours when the interconnector is acting as a load (MW half hour exporting to Victoria).



5.3.1.3 Basis of estimation

TOPSD0201 and TOPSD0204

Six of the 212 ElectraNet connection points do not have the kVAR values metered. These are minor connection points in terms of energy consumed. The impact of this lack of actual metered data on the calculation of MVA has been estimated to be of the order of 0.5%. The impact of this on MVA is operationally minimal. As such and considering the accuracy of any estimation method no estimation has been made on these missing KVAR values.

5.3.1.4 Changes to accounting policies

N/A – Information reported within 5.3 of the data template relates to non-financial information.

5.3.2 Power factor (TOPSD0301-TOPSD0308)

5.3.2.1 Data requirement

ElectraNet must report the power factor to allow for conversion between MVA and MW measures for each voltage. If both MVA and MW demand for a network are available then the power factor is the total MW divided by the total MVA. ElectraNet must provide a power factor for each voltage level and for the network as a whole. The average overall power factor conversion (TOPSD0301) is the total MW divided by the total MVA.

If either the MW or MVA measure is unavailable the average power factor conversion can be calculated as an approximation based on best engineering estimates.

When completing the Templates for Regulatory Years subsequent to the 2013 Regulatory Year, if ElectraNet can provide Actual Information for Table 5.3.3 it must do so; otherwise ElectraNet must provide estimated information.

5.3.2.2 Data source and methodology

Data source for this section is from ElectraNet's Subsload database, this contains 30 minute instantaneous SCADA figures. This is used to extract voltage, real power and reactive power.

The data extracted was for every Line that reports either a voltage or real power or reactive power for that day.

The data extracted does not differentiate between regulatory and non-regulatory lines, or the owner of those lines. Therefore, the data may include some SAPN 66kV or BHP 275kV that we have SCADA information for. This is arguably a more accurate picture of the network.

The voltage is shown for the first half hour of each day and this is used for the classification of the line. As system voltage may vary, ranges have been used to determine the nominal voltage of the line. These are:

- Between 50-100 kV = 66kV
- Between 100-200 kV = 132kV



- Between 200-350 kV = 275 kV
- Between 50-350 kV = overall network

As it is the voltage at the first half hour that determines classification if the line is off (i.e. zero) or low voltage (<50kV) this day of calculated power factors for that line is excluded.

There is some small chance of misclassifying a higher voltage line during deenergisation, if the snapshot (first half hour of the day) catches during the voltage going down.

This query will also capture the metering (line CT's) at both ends of a line.

Power factor for a line can have 4 quadrants of operation with lines usually measured at both ends. Convention being that positive is outwards from the bus end and negative is towards the bus, with P being real power and Q being reactive power.

- P+,Q+ = lagging
- P-,Q- = lagging
- P+,Q- = leading
- P-,Q+ = leading

Power factor = P / S (definition as per Instructions) where $S = sqrt(P^2 + Q^2)$.

If power factor is lagging give a negative sign to P / S (usually dimensionless) and if power factor is leading give a positive sign to P / S (usually dimensionless) i.e. + = leading and - = lagging.

In an excel spreadsheet, unity power factor is 1 and to do a proper average of a line that may have reactive power swinging back and forth we need to average around 1, hence we used the following formulas below:

```
=IF(E3=0,"NA",IF(E3="null","NA",IF(E3=-1,1,IF(E3=1,1,E3))))
```

The formula above normalises the -1 figure and removes 0's and nulls from the average.

```
=IF(BB3="NA","NA",IF(BB3<0,BB3*-1,1+(1-BB3)))
```

The formula above creates a power factor range centred on 1 (unity) if it is greater than 1 = leading, if it is < 1 = lagging. If the power factor is leading this number must be subtracted from 1 and then added back to 1 as a power factor can only range between zero and one.

An average is calculated for all the power factors (every 30min) for that line for a day, then an average determined from that daily average power factor for all lines within the voltage range.

This is the figure ElectraNet have reported in the data template. This number will not reconcile with total MW divided by the total MVA (TOPSD0101/ TOPSD0201) as the AER definitions and instructions specifically ask for power factor on lines whereas TOPS0101 and TOPS0201 relate to loads.



5.3.2.3 Basis of estimation

N/A

5.3.2.4 Changes to accounting policies

N/A – Information reported within 5.3.3 of the data template relates to non-financial information.



6. Physical Assets

6.1 Transmission system capacities variables – Overhead Circuit Length (TPA0101-TPA06)

6.1.1 Data requirement

ElectraNet is required to report overhead network length of circuit at each voltage level. The network length of circuit is the circuit length (measured in kilometres) of lines in service (the total length of lines including interconnectors, backbones and spurs). A double circuit line counts as twice the length. Length does not take into account vertical components such as sag.

6.1.2 Data source

The primary source used to report overhead circuit length and voltage is ElectraNet's Line Schedule database, which contains structure and span information. The information sourced from the database included overhead span lengths, circuits, voltage and section build dates. This is a live database and therefore data downloaded reflects the network status at that moment in time.

SAP, ElectraNet's integrated business and asset management system was used to provide a list of all ElectraNet built sections historically for the network. This was required to provide historical structural and span information and also the date of any lines removed/scrapped.

The Network Statistics Report from the ElectraNet Grazer asset management reporting tool provided an additional source of asset information as well providing a data cross-check for overhead span lengths and voltage by built section including for removed and scrapped lines.

The list of built sections extracted from SAP was reconciled against the built section list in the Line Schedules database and with the Network Statistics Report. This was to ensure only regulated lines were included in the line asset list and to identify what lines were decommissioned and when.

Note that to determine circuit length, Line Schedules data was used.

From the reconciled asset list, line length for each built section at each voltage was then summed to determine total overhead network length of circuit for each voltage type.

6.1.3 Basis of estimation

Some assumptions were made based on the available data to estimate overhead circuit length including:

Date of build

In some instances, the structures and spans in the line schedules did not include startup/build dates due to some inconsistencies with the data analysed. If these dates were





unavailable, the date was estimated on the one of the basis below depending on availability of information:

- 1. The date as found in line schedules which is consistent with rest of the built section;
 - (a) By definition, a built section is a consistent section of line built at the same time
- 2. The SAP start-up date;
 - (a) Although SAP is not ElectraNet's primary database for line details for some items it may include start-up dates.
- 3. The terminal substation start-up date from SAP.
 - (a) Generally a line is built to reach a substation (certainly for a radial)

As identified in the previous section, the preferred approach if applicable was to use the date found in the Line Schedules data as this information is actively maintained.

Length of circuits within a substation

Consistent with ElectraNet's internal procedures for determining circuit length, information on the length of circuits within a substation is not currently maintained. These have been excluded from the data presented as ElectraNet defines a transmission line as from the substation gantry structure to another substation gantry structure.

Consistent with the AER's data requirement, double circuit lines were counted as twice the length.

The lengths reported in the data templates are in kilometres and are classified by the kV ratings and year.

De-energised lines

De-energised line circuit lengths are included in the provided figures. This is as these lines can be returned to service quickly with minor works and these sections are still maintained.

Decommissioned lines

For scrapped and decommissioned lines the SAP decommissioning date (changed on date) is used for date of line removal and for length and spans of removed lines. For lines removed, old archived historical line schedules were used to determine line length.

6.1.4 Changes to accounting policies

N/A – Information reported within 6.1.1 of the data template relates to non-financial information.



6.2 Underground cable circuit length at each voltage (TPA0201 – TPA0207)

6.2.1 Data requirement

ElectraNet is required to report underground cable circuit length at each voltage level. The underground cable circuit length is the circuit length (measured in kilometres) of lines in service (the total length of lines including interconnectors, backbones and spurs).

6.2.2 Data source and methodology

The primary source used to report underground circuit length and voltage is SAP, ElectraNet's integrated business and asset management system. This database provided a list of all ElectraNet underground built sections over the history of the network, cable circuit length and voltage and section build date. The database also provided the date of any lines removed or scrapped.

Note that unlike for overhead circuit lengths, for underground cables there is no line schedules database as there are no spans and structures. Therefore it was determined that the SAP data available provides the most reliable basis for determining underground circuit length, voltage and asset start-up date.

Google Earth and information from the Network Stats Report was used to establish circuit length for 66kV cable sections.

All other assumptions regarding underground circuit length were consistent with the methodology (only regulated etc.) applied for overhead circuit length described in section 6.1 of this report.

6.2.3 Basis of estimation

Length of circuits within a substation

The length of circuit within substations is not maintained. These have been excluded from the data presented as ElectraNet defines a transmission cable as from substation cable bushing to another substation cable bushing. For 66kV only the end point is classed as the substation fence.

The lengths reported in the data templates are in kilometres and are classified by the kV ratings and year.

66kV Cables

66kV cables have been included based on Google Earth measured lengths, as there is no available data in either the Lines Schedules database or SAP.

6.2.4 Changes to accounting policies

N/A – Information reported within 6.1.2 of the data template relates to non-financial information.



6.3 Estimated overhead network weighted average MVA capacity by Voltage class (TPA0301 – TPA0307)

6.3.1 Data requirement

ElectraNet must provide estimated typical or weighted average capacities for each of the listed voltage classes under normal circumstances taking account of limits imposed by thermal or by voltage drop considerations as relevant.

This information will be used to calculate an overall MVA x km 'carrying capacity' for each voltage class under normal circumstances. ElectraNet is required to provide summer Maximum Demands for summer peaking assets and winter Maximum Demands for winter peaking assets. If ElectraNet's peak has changed from winter to summer (or vice versa) over the time period, winter ratings should be applied for those years where there was a winter peak and summer ratings for those years where there were summer peaks.

Where circuits travel both overhead and underground and the capacity of the overhead and underground components is not available separately, ElectraNet may split the circuit capacity by the ratio of the network that is overhead and underground to form estimates of the overhead capacity and underground capacity components.

6.3.2 Data source and methodology

Base information including circuit length, voltage, energisation date and regulated/unregulated status were derived from the Network Statistics Report that extracts data from SAP.

ElectraNet used the internal Plant and Line Rating database as the source to determine the seasonal thermal normal ratings for all regulated lines.

Where information was not available, usually for decommissioned lines, the historical ratings as per the AEMO ratings workbooks was used as a basis for seasonal thermal normal ratings. If this information was not available a rating was applied that was consistent with those for a line of similar conductor type and design temperature.

All other assumptions in this section are consistent with section 6.1.1 of the data template unless otherwise stated in the basis of estimate in the following section.

6.3.3 Basis of estimation

ElectraNet has provided weighted average capacity by distance. Only summer overhead network weighted Average MVA capacity by voltage has been reported, as ElectraNet is a summer peak demand network.

In the event that the maximum rating achievable at any time during the year was used, consistent with the winter rating, a materially higher number would result.

In preparing weighted average MVA, ElectraNet assumed that all uprating's are from the 1st January each year if no better information is available.





Ratings have been prepared on a per circuit basis. Therefore if a single built section is changed this does not change the commissioning date (commissioning date is defined as the oldest built section in the circuit) or the ratings for the line (limited by lowest rated built section, if this is changed will be captured as an uprating).

There are some small sections of 66 kV which is underground as well as overhead, but the underground component is immaterial and therefore all of the circuit is assumed to be overhead.

Where information was not available, usually for older lines, the historical ratings as per the AEMO ratings workbooks was used as a basis for seasonal thermal normal ratings. If this information was not available a rating was applied that was consistent with those for a line of similar conductor type and design temperature.

De-energised lines were included if the line has a rating in the Plant and Line Rating database.

In some instances, the Network Statistics Report did not include start-up/build date or length of the circuit. This was mainly due to some data lookup errors to do with line tees where there may be different rated circuits that all report to the same feeder number. If these are unavailable, ratings were estimated using either the Line Schedules database or within SAP.

The preferred approach if applicable was to use the data found in the Line Schedules database as opposed to SAP as this information is actively maintained.

6.3.4 Changes to accounting policies

N/A – Information reported within 6.1.3 of the data template relates to non-financial information.

6.4 Estimated underground network weighted average MVA capacity by Voltage class (TPA0401 – TPA0407)

6.4.1 Data requirements

ElectraNet is required to provide estimated typical or weighted average capacities for each of the listed voltage classes under normal circumstances taking account of limits imposed by thermal or by voltage drop considerations as relevant.

This information will be used to calculate an overall MVA x km 'carrying capacity' for each voltage class under normal circumstances. ElectraNet is required to provide summer Maximum Demands for summer peaking assets and winter Maximum Demands for winter peaking assets. If a ElectraNet's peak has changed from winter to summer (or vice versa) over the time period, winter ratings should be applied for those years where there was a winter peak and summer ratings for those years where there were summer peaks.

Where circuits travel both overhead and underground and the capacity of the overhead and underground components is not available separately, ElectraNet may split the circuit capacity by the ratio of the network that is overhead and underground to form estimates of the overhead capacity and underground capacity components.





From the 2015 Regulatory Year onwards ElectraNet is required to report actual overhead and underground capacity.

6.4.2 Data source and methodology

As described in the previous section, base information including circuit length, voltage, energisation date and regulated/unregulated status were derived from ElectraNet's Network Statistics Report. ElectraNet used the internal Plant and Line Rating database as the source to determine ratings for all regulated underground lines.

All other assumptions in this section are consistent with those used in 6.1.2 and 6.1.3 of the data template unless otherwise stated in the basis of estimate.

6.4.3 Basis of estimation

There are some small sections of 66 kV which is underground as well as overhead, but the underground component is immaterial and therefore all of the circuit is assumed to be overhead. This results in a zero for variable TPA0406.

Note that underground cables do not have seasonal ratings so only normal ratings have been reported.

6.4.4 Changes to accounting policies

N/A – Information reported within 6.1.4 of the data template relates to non-financial information.

6.5 Installed transmission system transformer capacity (TPA0501 – TPA0505)

6.5.1 Data requirements

ElectraNet must report transformer capacity involved in transformation levels indicated within the table. For the purposes of these measures the transmission system includes transformers, overhead and underground lines and cables in service that serve a transmission function. The transformer capacities Variables must be reported inclusive of Cold Spare Capacity.

For each level, report the summation of normal assigned continuous capacity or rating (with forced cooling or other capacity improving factors included if relevant). Also include capacity of tertiary windings as relevant. Assigned rating must be, if available, the rating determined from results of temperature rise calculations from testing or otherwise the nameplate rating. Do not include step-up transformers at generation connection location.

For category the 'Transformer Capacity for Directly Connected End-Users Owned by the End-User' (TPA0504), report transformer capacity at connection point to directly connected end user where the capacity is owned by the directly connected end user. Where ElectraNet knows what the directly connected customer's transformer capacity is, it should include that information. Where this information is not available to ElectraNet, a summation of non-coincident individual Maximum Demands of each such directly connected customer whenever they occur (i.e. the summation of a single annual Maximum Demand for each customer) is used as a proxy for capacity within the



customer's installation. The Variable should be the sum of the direct information where this is available and of the proxy MVA measure where the direct measure is not available.

Where ElectraNet utilises installed transformer capacity which is not included in the other categories within this table, report this transformer capacity against 'other installed transformer capacity' (TPA0506) and specify its type.

Interconnector Capacity

This is ElectraNet's Network thermal capacity available for network interconnector purposes to another network – i.e. regarding other network as an export capacity required on the source network.

ElectraNet has provided a data response consistent with the requirement described in the AER's Instructions and Definitions. However, it should be noted that NSPs generally refer to Interconnector capacity on the basis of MWs (real power flow), that is, the power that is capable of doing actual work. Murraylink (V_SA MNSP1) interconnector is a DC interconnector and MVA is only really useful in the context of AC power. Therefore for the purpose of providing capacity data for Murraylink, ElectraNet have assumed MW = MVA assuming the power factor is unity.

6.5.2 Data source and methodology

TPA0501-04

Capacities provided are normal continuous ratings (with forced cooling if available (ODAF)) from nameplate.

The primary source used for transformer capacity information was SAP, ElectraNet's integrated Business and Asset Management System. This database provided all transformer (inc. spares) sizes and dates of energisation and where applicable decommissioning. Note that figures are given as asserts in commission as at 30 June of the reporting year.

ElectraNet's System Switching Diagrams were used to determine if the substation is a transmission transformer substation, if the customer is the DNSP or not, if ElectraNet or a direct connect customer own the transformer and the size of non ElectraNet (customer) Transformers.

The ElectraNet Networks report was used to establish the list of ElectraNet substations and their energisation dates for installed transmission system transformer capacity.

TPA0505 Interconnector capacity

ElectraNet Transmission-Annual Planning Reports was used to source interconnector transfer capacities each year. This is a publicly available document that ElectraNet is required to produce annually under the Rules.

The given figure for the variable TPA0505 is the thermal capacity information for the two interconnectors that connect South Australia to the rest of the NEM.



This figure is comprised of 220 MW at the receiving end from the Murraylink interconnector, this comes from information from the Asset owner, APA Group. The capacity is limited by the power electronics within the HVDC link when working as an inverter.

This figure is comprised of 460 MW from the South East Interconnector (also known as Heywood Interconnector). This information comes from the Asset owner and planner, SPAusnet and AEMO. The capacity is limited by the two Heywood 500/275 kV transformers that are rated at 525 MVA (short term). These transformers set the limit for the interconnector at 460 MW bi-directionally. This is an N-1 capacity.

Note that many other factors can limit the interconnector flow to less than the thermal capacity quoted, including:

- Thermal limitations and voltage stability in the South Australian Network;
- Thermal limitations and transient stability in the Victorian Network; and
- Oscillatory stability limits.

6.5.3 Basis of estimation

To convert MW measure to MVA in relation to Interconnector capacity, ElectraNet assumed MVA = MW assuming power factor is unity.

Station supply (auxiliaries) transformers are excluded as they do not perform a transmission function. SVC transformers are included as transmission transformers.

As the energisation dates and sizes of non-ElectraNet transformers are not known, ElectraNet has assumed the energisation date (from ElectraNet Network Report) of the associated substation or line (as per Line schedules) as a proxy and size as per the Substation Switching Diagrams as this is the best available information.

Tertiary winding capacity is not considered relevant as this capacity is already captured in the nameplate primary to secondary capacity. Capacity taken from the tertiary is normally subtracted from the primary to secondary capacity.

ElectraNet has provided the size of directly connected transformers that are owned by the direct connect customer; this information is based on reporting from the customer, and may be confidential. The onus is on the customer to notify ElectraNet of any changes in size.

For the variable TPA0503, Transformer capacity for directly connected end-users owned by the TNSP, the input includes both regulated and unregulated transformers.

For variables TPA0503, Transformer capacity for directly connected end-users owned by the TNSP and TPA0504, Transformer capacity for directly connected end-users owned by the end-user, generator step up transformers are included. Power station house supply (auxiliaries) transformers are excluded.

For variable TPA0501, Transmission substations and TPA0502, Terminal points to DNSP systems, spare transformers are included.



For variable TPA0504, Transformer capacity for directly connected end–users owned by the end–user only end user, transformers at the boundary between networks is counted (not transformers deeper within their networks)

For all variables, regulators are excluded; this is as the capacity of the fixed tap transformer is captured and this is the capacity of the flow path.

6.5.4 Changes to accounting policies

N/A – Information reported within 6.1.5 of the data response relates to non-financial information.

6.6 Cold Spare capacity (TPA06)

6.6.1 Data requirements

Report the capacity of spare transformers owned by ElectraNet but not currently in use.

6.6.2 Data source and methodology

The primary source used to report cold spare capacity is SAP, ElectraNet's integrated business and asset management system. This provided all transformer (inc. spares) sizes and energisation and decommissioning dates. Regulators have been excluded.

In SAP search query IH06 was used on equipment functional location "TSP" (transmission spare) with functional location description "TF". The functional locations identified were then searched on to identify the transformers within them using query IH08 with equipment description "TRANS."

To identify scrapped spares, search IH08 on equipment description "SPARE" excluding "REG" and technical object type SUBS0028, TRF* excluding the deleted flag was performed in SAP.

For decommissioned spares, a count was performed from start-up to valid from date. For regular spares, a count from valid from date was performed. Ratings and dates were as per the SAP information.

6.6.3 Basis of estimation

As per 6.1.5 in the data template, spare regulators have been excluded; this is as the capacity of the fixed tap transformer is captured and this is the capacity of the flow path.

6.6.4 Changes to accounting policies

N/A – Information reported within 6.1.6 relates to non-financial information.



7. Quality of Services

"Quality of services must be reported in accordance with the definitions specified in the December 2012 electricity transmission network service providers service target performance incentive scheme documents dated December 2012 (the STPIS documents)"

7.1 Service component

7.1.1 Service parameter 1 – Average circuit outage rate (TQS0101-TQS0115)

7.1.1.1 Data requirement

'Outage' means 'loss of connection' rather than loss of supply by a connected system or customer. To allow summation into an overall Average Circuit outage rate, both numerator (No. of Events with defined circuits unavailable per annum) and denominator (Total No. of defined circuits) are needed as well as the calculated percentage rate for each item.

'Number of lines fault outages' (TQS0102) and 'number of defined lines' (TQS0103) must be reported as the amounts used to calculate the "Lines outage rate - fault" (TQS0101).

'Number of Transformer fault outages' (TQS0105) and 'Number of defined Transformers' (TQS0106) must be reported as the amounts used to calculate the 'Transformers outage rate - fault' (TQS0104).

'Number of Reactive plant fault outages' (TQS0108) and 'Number of defined reactive plant'

(TQS0109) must be reported as the amounts used to calculate 'Reactive plant outage rate - fault' (TQS0107).

'Number of Lines forced outages' (TQS0111) must be reported as the amount used to calculate the 'Lines outage rate – forced outage' (TQS0110).

'Number of Transformers forced outages' (TQS0113) must be reported as the amount used to calculate the 'transformer outage rate – forced outage' (TQS0112).

'Number of reactive plant forced outages' (TQS0115) must be reported as the amount used to calculate 'Reactive plant outage rate – forced outage' (TQS0115).

Prior to 2013, the Average Outage Circuit Rate was not required to be submitted to the AER as it was not a service component under the STPIS (data however was being captured within the Events Database). A new worksheet was created in 2013 (within the Workbook - Monthly Report Calendar Year YYYY.xlsm) for the purpose of reporting the new Service Parameter 1 – Average Circuit Outage Rate parameter. This new worksheet was used to generate the figures for the years 2006 to 2013.



7.1.1.2 Data source and methodology

ElectraNet's Events database is the single source of raw data for use in calculating the service components. Exclusions, defined by the AER's "Final Electricity transmission network service providers Service target performance incentive scheme" document, are set within the Events Database against the raw data.

The figures used for the 2014 RIN submission are the actual figures generated out of the Events database, not the annually submitted figures to the AER even though some years the figures will align.

The data relating to SM and AOD is highly dependent on the determination of the events fault cause code. As post fault event analysis to determine the confirmed cause code can take lengthy periods of time, in some cases greater than six months, it is possible, that at the time of the yearly AER submission, not all fault events will have had their cause code determined. At the time of the yearly submission, a fault event that had been included in the STPIS submission due to its initial cause code, is now not included. For example, a fault event that was included at the time of submission, reclassified as 3rd Party post submission, would now be excluded as per the AER STPIS definition for exclusions.

Considering this, ElectraNet have used Events database actual data has and are of the opinion that this will provide the best available source of data into the future.

For service components TQS0101, TQS0102, TQS0104, TQS0105, TQS0107, TQS0108, TQS0110, TQS0111, TQS0112, TQS0113, TQS0114 and TQS0115, the following data sources were used:

- Workbook Monthly Report Calendar Year YYYY.xlsm
- 2. Worksheet Average Circuit Outage Rate
- 3. E-Terra Archive Report (database query) 391Circuit Outage Rates.

For service component TQS0103 (Number of defined lines), the following data sources were used:

- 1. Workbook Monthly Report Calendar Year YYYY.xlsm
- 2. Worksheet Average Circuit Outage Rate
- 3. E-Terra Archive Report (database query) 359 All Enet Lines.

Prior to 2013, where the AER has accepted the STPIS yearly submissions, they have by default, accepted the total number of lines. This is because the total number of lines is required for calculating the "S1 - Transmission Availability Circuit" indicator as part of the yearly STPIS submission. The submissions for 2006 – 2012 have been accepted by the AER under then "Service Standards Compliance Reviews" documentation for each calendar year. These documents can be found on the AER's web site via the link below, but will only show the final submitted, audited and accepted figures which do not include total number of lines. Note that the total number of lines was not required as a separate figure for the yearly submissions.

http://www.aer.gov.au/taxonomy/term/319?order=title&sort=asc&field_type_value=354&f_ield_sector_value=4&field_segment_value=All_





Service Components - TQS0106 (number of defined transformers), TQS0109 (number of defined reactive plant)

- 1. The total number of defined transformers and reactive plant for 2006 2013 has been derived from ElectraNet's asset information system, SAP.
- 2. Total Reactive Plant is the summation of Reactors, Capacitors and SVC's.
- Assets not providing prescribed transmission services have been excluded (as stated in final STPIS document December 2012 page 22 under the exclusions section).

7.1.1.3 Basis of estimation

N/A – the data used is actual data.

7.1.1.4 Changes to accounting policies

N/A – Information reported within 7.1.1 of the data template relates to non-financial information.

7.1.2 Service parameter 2 – Loss of supply event (TQS0116-TQS0117)

7.1.2.1 Data requirement

ElectraNet must enter the loss of supply event frequency thresholds x and y. Where the loss of supply event frequency thresholds have changed, ElectraNet must specify all loss of supply event frequency thresholds that applied in the period and the years to which they applied.

Prior to 2013, the Average Outage Circuit Rate was not required to be submitted to the AER as it was not a service component under the STPIS (data however was being captured within ElectraNet's Events Database). A sub component of the database was created in 2013 for the purpose of reporting the new Service Parameter 1 – Average Circuit Outage Rate parameter. This was used to generate the figures for the years 2006 to 2013.

For Service Parameter 2 – Loss of supply event frequency – number in ranges specified follow the same definitions as stated in the "Final Electricity transmission network service providers Service target performance incentive scheme December 2012" document.

7.1.2.2 Data source and methodology

As noted in 7.1.1.2, ElectraNet's Events Database is the single source of raw data for use in calculating the service components.

The figures used for the 2014 RIN submission are the actual figures generated out of the Events database, not the annually figures previously audit by the AER. Accordingly some annual figures may not align due to information on primary cause which has come to light post annual audit.

The data relating to SM and AOD is highly dependent on the determination of the events fault cause code. As post fault event analysis to determine the confirmed cause code





can take extended periods of time, in some cases greater than six months, it is possible, that at the time of the yearly AER submission, not all fault events will have had their cause code determined. At the time of the yearly submission, a fault event that had been included in the STPIS submission due to its initial cause code, is now not included. For example, a fault event that was included at the time of submission, reclassified as 3rd Party post submission, would now be excluded as per the AER STPIS definition for exclusions.

X & y values for the period 2003 to 2008 were derived from the AER Web site, "Decision – South Australian Transmission Network Revenue Cap 2003-2007/08" dated 11 December 2002, page 98

X & y values for the period from 2008 to 2013 were derived from the AER Web site, "Final - ElectraNet transmission determination 2008-09 to 2012-13" dated 11 April 2008, page 96.

ElectraNet have included the x and y value applied in each year of the reporting period in the data template as a comment for each input cell.

For the service components TQS0116 and TQS0117 the following data sources were used:

- 1. Workbook Monthly Report Calendar Year YYYY.xlsm
- 2. Worksheet ETerra Sys Mins (Filtered)
- 3. E-Terra Archive Report (database query) 119 System minutes Filtered.

Within the monthly Eterra System Minutes section of the database ElectraNet entered the start and end dates. The E-Terra Archive query was then used to establish correct number of system minutes.

For the 2008 reporting period the x and y values of 2008H2 were used for the calculation of the 2008 calendar year figures. This provides consistent x and y values across the majority of the reporting periods (2008H2-2013H1 and 2013H1-2018H2) compared to the minority periods (2006 and 2007).

For the 2013 half year reporting the x and y values of 2013 H2 were used for calculation of the 2013 calendar figures. This is purely administrative since the x and y values did not change between the period 2008H2-2013H1 and 2013H2-2018H1.

7.1.2.3 Basis of estimation

N/A - the data used is actual data.

7.1.2.4 Changes to accounting policies

N/A – Information reported within 7.1.2 of the data template relates to non-financial information.



7.1.3 Service parameter 3 – Average outage duration (TQS0118)

7.1.3.1 Data requirement

Service Parameter 3 – Average outage duration the data reported prior to 2013 follow the same definitions as stated in the "Final Electricity transmission network service providers Service target performance incentive scheme December 2012" document.

7.1.3.2 Data source and methodology

As noted in 7.1.1.2, ElectraNet's Events Database is the single source of raw data for use in calculating the service components. As noted in section 7.1.2.2 above, not all outages are determined at the time of the yearly AER submission. Therefore, ElectraNet are of the opinion that the Events database will provide the best available source of actual data into the future for service components TQS0118, the following supporting documentation was used:

- 1. Workbook Monthly Report Calendar Year YYYY.xlsm
- 2. Worksheet ETerra Sys Mins (Filtered)
- 3. E-Terra Archive Report (database query) 119 System minutes Filtered.

Start and end dateswere defined to establish average outage durations.

7.1.3.3 Basis of estimation

N/A - the data used is actual data.

7.1.3.4 Changes to accounting policies

N/A – Information reported within 7.1.3 of the data template relates to non-financial information.

7.1.4 System parameter – Proper operation of equipment – number of failure events (TQS0119-TQS0121)

7.1.4.1 Data requirement

Quality of services must be reported in accordance with the definitions specified in the December 2012 electricity transmission network service providers service target performance incentive scheme documents dated December 2012 (the STPIS documents).

Number of failures of protection systems (TQS0119)

As defined on page 26 of the STPIS documents::

"Protection system failure events" are those events where the relevant protection equipment does not operate for a fault event as designed or where the relevant equipment operates when there is no relevant fault rate.



Material failure of SCADA system (TQS0120)

As defined on page 26 of the STPIS documents:

The number of SCADA failures per annum as notified to the TNSP by the Australian Energy Market Operator (AEMO) on a monthly basis in the SCADA Minutes Lost report.

Incorrect operational isolation of primary or secondary equipment (TQS0121)

As defined on page 26 of the STPIS documents:

The number of "incorrect operational isolation events" per annum where "incorrect operational isolation events" are those events where primary or secondary equipment was not been properly isolated during scheduled or emergency maintenance, irrespective of whether an outage occurred as a result.

ElectraNet has provided data on quality of services on the basis above which is consistent with the requirements of the AER Benchmarking regulatory information notice.

7.1.4.2 Data source and methodology

Number of failures of protection systems (TQS0119)

A network event is managed by ElectraNet's System Monitoring and Switching Centre (SMSC) who log the event in ElectraNet's Events Database. ElectraNet's fault investigation team review the event and record the results in a fault investigation report. The root cause analysis (RCA) in the fault investigation report identifies if the event is a failure of a protection system.

The Incorrect Protection Operation Count from WebQuery run each month on the Events Database to extract all failure events that occurred. The number of events that occurred for the month is entered in the monthly STPIS and MITC performance reports. The number of events identified in the monthly STPIS performance report for each calendar year has been totalled to determine the total per annum events for the each period.

Material failure of SCADA system (TQS0120)

AEMO provides to ElectraNet on a monthly basis the SCADA minutes lost report which is reported in ElectraNet's monthly STPIS and MITC performance reports. The number of events identified in the monthly STPIS performance report for each calendar year has been totalled to determine the total per annum events for the each period.

Incorrect operational isolation of primary or secondary equipment (TQS0121)

Suspected switching incidents associated with primary plant are advised by field technicians to ElectraNet's System Monitoring and Switching Centre (SMSC) who in turn advise the ElectraNet Switching Committee that a switching incident may have occurred. The Switching Committee's role is to investigate reported events to establish if a switching incident has actually occurred.

In the case that a switching incident where primary plant is not isolated has occurred, it is reported in the monthly STPIS and MITC performance reports. The number of events





identified in the monthly STPIS performance report for each calendar year has been totalled to determine the total per annum events for the each period.

Incorrect isolation events associated with secondary systems are recorded in ElectraNet's Events Database. The SMSC daily log managed within the Events Database records the details of any event where secondary equipment has not been isolated.

To establish the number of incorrect operational isolation events per annum associated with secondary systems, ElectraNet reviewed the SMSC daily log within the Events Database. For each calendar year the number of identified incorrect isolation events identified associated with secondary systems was totalled.

7.1.4.3 Basis of estimation

Number of failures of protection systems (TQS0119)

Prior to the 1st of January 2013 ElectraNet were not required to report protection system failure events as per the definition set out in the December 2012 electricity transmission network service providers service target performance incentive scheme (STPIS) document.

As ElectraNet have historically not been required to report this information, the number of protection system failure events available in the Events Database prior to calendar year 2012 will not be consistent with the current STPIS definition. Historically the protection system failure events were captured for internal purposes, but the information was based on different criteria than that defined in the December 2012 STPIS document.

Therefore, to provide an estimate of the number of protection system failures over the historical period, ElectraNet reviewed the number of protection system failure events against the total failure events for calendar year 2013. ElectraNet then assumed the same proportion as for 2013 calendar year of protection system failure events to total failure events to estimate the number of protection system failure events for prior periods.

Material failure of SCADA system (TQS0120)

No estimations have been made in the compilation of the number of material SCADA system failure events. Whilst material SCADA system failure events historically have not been a performance parameter applicable to TNSPs under STPIS, this information has been collected on a monthly basis over the benchmarking RIN back-cast period as part of existing business performance reporting.

Incorrect operational isolation of primary or secondary equipment (TQS0121)

No estimations have been made in the compilation of the number of incorrect isolation events. Whilst incorrect operational isolation of primary and secondary events historically have not been a performance parameter applicable to TNSPs under STPIS, this information has been collected on a monthly basis over the benchmarking RIN backcast period as part of existing business performance reporting.



7.1.4.4 Changes to accounting policies

N/A – Information reported within 7.1.4 of the data template relates to non-financial information.

7.2 Market impact component

7.2.1 Data requirement

ElectraNet is required to report the MIC Data in accordance with the definitions specified in the December 2012 Electricity Transmission Network Service Providers Service Target Performance Incentive Scheme (STPIS) document December 2012 Version 4. The difference with respect to MIC between earlier Versions and Version 4 is that "Coordinated Generator Outages" are excludable in earlier Versions but not in Version 4.

7.2.2 Data source and methodology

ElectraNet's MITC Events Database is the source of data from which the report "AER Submission Details by Date Range" is produced on a yearly basis. The "AER Submission Details by Date Range" report summarises the included and excluded constraint Dispatch Intervals in a year. The number of "Coordinated Generator Outage" (CGO) related dispatch intervals that have been excluded per Version 3 or earlier was worked out by applying appropriate data filter to the "AER Submission Details by Date Range" report.

The number of dispatch intervals that excluded Coordinated Generator Outages (CGO) (per Version 3 or earlier) was obtained from Page 40 of AER Explanatory Statement – STPIS – September 2012 for 2006 to 2011. For 2012 it was obtained from the outcome of AER's Service Standards Compliance Review. For 2013, the actual MIC submitted to AER is used. The number of Generator Coordinated Outage related dispatch intervals was worked out by applying data filter for this exclusion.

ElectraNet's "AER Submission Details by Date Range" yearly report has been used to find, by filtering, the number of "Coordinated Generator Outages" related Dispatch Intervals that have been excluded in the year. This number is added to the corresponding Version 3 or earlier MIC data as approved by the AER to work out the Version 4 data.

The process is applied to the Version 3 or earlier MIC data for 2006 – 2012.

For 2013, because the AER changed the MIC submission template in late 2013 ElectraNet has not yet been able to modify the MIC database structure for automatic reporting according to the new template. So for 2013 RIN MIC data the "AER Submission Details by Date Range" report is unavailable. Instead the actual 2013 MIC Submission to the AER is used. The number of "Coordinated Generator Outages" related Dispatch Intervals has been captured for each half year in two versions of the submission, one with the relevant DIs included and one with them excluded. These can be inspected by checking the inclusion and exclusions in each spreadsheet filter.



7.2.3 Basis of estimation

ElectraNet has not captured the data to the STPIS guideline which was produced in 2012 and not scheduled to apply to ElectraNet until the 2018-2023 regulatory control period.

The substantive difference between the 2012 version of the scheme and the previous version is the treatment of exclusions for "Coordinated Generator Outages" from the MIC parameter. Prior to 2012 these outages were excluded entirely whereas under the 2012 version these outages are not excluded.

An appropriate basis for estimation is to add the number of "Coordinated Generator Outages" in each period to the annual performance previously reported to the AER in accordance with the pre 2012 definitions. In addition in the case of the 2013 calendar year data has not yet been approved by the AER.

7.2.4 Changes to accounting policies

N/A

7.3 System losses

7.3.1 Data requirement

ElectraNet must report system losses in accordance with the definitions specified in the Economic Benchmarking RIN for Transmission Network Services Providers Instruction and Definitions November 2013 Chapter 7 Section 7.3 System losses.

7.3.2 Data source and methodology

National Grid Metering (NGM) data on which the NEM financial settlement is based has been used. This has been previously Quality Controlled by the Metering Data Agent (meter reader) and by AEMO prior to use in NEM settlement. It is also checked weekly by ElectraNet's internal processes for reasonableness of Transmission Loss Factor.

NGM Data is manually extracted from the ElectraNet Oracle database through the SA Market V2.0 application to an Excel spreadsheet on yearly basis.

The Electricity Inflow, Electricity Outflow, again on yearly basis, is calculated using the extracted data and appropriate formulae following the formula specified in RIN Instructions and Definitions Chapter 7 Section 7.3.

7.3.3 Basis of estimation

No estimations have been required.

7.3.4 Changes to accounting policies

N/A





8. Operating Environment

8.1 Terrain factors (TEF010-TEF0108)

8.1.1 Data requirement

Complete the table in accordance with the definitions provided in chapter 9.

If ElectraNet records poles rather than spans, the number of spans is the number of poles less one.

We require five years of back cast data for the terrain factors and the following Variables have the most recent Regulatory Year shaded yellow and the remaining four years shaded orange:

- Number of vegetation Maintenance Spans (TEF0101)
- Average Number Of Trees Per Maintenance Span (TEF0103)
- Average number of Defects per vegetation Maintenance Span (TEF0104)
- Tropical proportion (TEF0105)
- Standard Vehicle Access (TEF0106)
- Altitude (TEF0107)
- Bushfire risk (TEF0108)

If ElectraNet has Actual Information, ElectraNet must report all years of available data. If ElectraNet does not have actual information on these variables, then it must estimate data for the most recent Regulatory Year.

Number of vegetation Maintenance Spans

The total count of spans in the network that are subject to vegetation management practices in the relevant year. If ElectraNet records towers rather than spans, the number of spans is the number of towers less one. A maintenance span is defined as a span in ElectraNet's network that is subject to active vegetation management practices in the relevant year. Active vegetation management practices do not include Inspection of vegetation Maintenance Spans.

Average vegetation maintenance span cycle

If there is no available data for the 'average vegetation maintenance span cycle' variable (TEF0102), ElectraNet is required to estimate five years of back cast data. The average vegetation Maintenance Span Cycle (defined as the planned number of years between which cyclic vegetation maintenance is performed) can be calculated based on a simple average of all the Maintenance Span Cycles.



Average number of trees per vegetation Maintenance Span

ElectraNet must report the average number of trees per maintenance span. If ElectraNet does not have actual information for the average number of Trees per Maintenance Span it must, estimate this Variable using one or a combination of the following data sources:

- Encroachment Defects (e.g. ground or aerial Inspections, LiDAR) and/or records of vegetation works scoping, or GIS vegetation density data;
- Field surveys using a sample of Maintenance Spans within each vegetation management zone to assess the number of mature trees within the maintenance corridor. Sampling must provide a reasonable estimate and consider the nature of Maintenance Spans in urban versus rural environments in determining reasonable sample sizes.
- Vegetation data such as:
 - the Normalised Difference Vegetation Index (NDVI) grids and maps available from the Bureau of Meteorology (BOM);
 - data from the National Vegetation Information System (VIS data) overlaid on network GIS data to assess the density of vegetation in the direct vicinity of the Maintenance Spans; or
 - Similar data from other sources such as Geoscience Australia or commercial suppliers of satellite imagery overlaid on network GIS data records.
- Any other data source based on expert advice.

ElectraNet must outline its estimation approach for the Average Number of Trees per Maintenance Span in its Basis of Preparation.

When completing the Templates for Regulatory Years subsequent to the 2013 Regulatory Year, if ElectraNet can provide Actual Information for the average number of trees per vegetation maintenance span it must do so; otherwise ElectraNet must provide Estimated Information.

Average number of Defects per vegetation Maintenance Span

ElectraNet must report the average number of vegetation related Defects that are recorded per Maintenance Span in the relevant year.

In its Basis of Preparation, ElectraNet must specify whether it records the total number of Defects for each vegetation Maintenance Span, or whether it records Defects on a vegetation Maintenance Span as one, regardless of the number of Defects on the span.

When completing the Templates for Regulatory Years subsequent to the 2013 Regulatory Year, if ElectraNet can provide Actual Information for the average number of defects per vegetation maintenance span it must do so; otherwise ElectraNet must provide Estimated Information.



Tropical spans

The tropical spans are the approximate total number of urban and rural Maintenance Spans in the Hot Humid Summer and Warm Humid Summer regions as defined by the Australian Bureau of Meteorology Australian Climatic Zones map (based on temperature and humidity).

When completing the Templates for Regulatory Years subsequent to the 2013 Regulatory Year, if ElectraNet can provide Actual Information for tropical spans it must do so; otherwise ElectraNet must provide Estimated Information.

Standard vehicle access

Areas with Standard Vehicle Access are serviced through made roads, gravel roads and open paddocks (including gated and fenced paddocks). An area with no Standard Vehicle Access would not be accessible by a two wheel drive vehicle. The intended unit of measure for the in the economic benchmarking RIN is the km of route line length that does not have standard vehicle access.

Altitude

The Route Line Length that is 600 metres above sea level.

Bushfire risk

The bushfire risk Variable is the number of Maintenance Spans in high bushfire risk areas as classified by a person or organisation with appropriate expertise on fire risk. This includes but is not limited to:

- ElectraNet's jurisdictional fire authority
- local councils
- insurance companies
- ElectraNet's consultants
- Local fire experts

When completing the Templates for Regulatory Years subsequent to the 2013 Regulatory Year, if ElectraNet can provide Actual Information for bushfire risk it must do so; otherwise ElectraNet must provide Estimated Information.

Note that for TEF0101 and TEF0103 to TEF0108, ElectraNet are not required to provide historical data for the regulatory period 2006-12 as ElectraNet does not currently measure the information in accordance with the variable requirement and it would be unnecessarily burdensome to estimate and it is illogical to enter'0'.

8.1.2 Data source and methodology

Number of Vegetation Maintenance Spans (TEF0101)

ElectraNet in establishing total number of vegetation maintenance spans, average number of trees per span and defects relied on information estimated by the vegetation maintenance contractor, Vemco.





A maintenance Span is defined as a span in ElectraNet's network that is subject to active vegetation management practices during the relevant year. ElectraNet has included spans requiring tree trimming, removal or scrub removal, but does not include inspection or measuring of vegetation in spans. This is based on expert advice from ElectraNet's vegetation maintenance contractor, Vemco.

To establish the total number of maintenance spans, ElectraNet have been advised that Vemco reviewed an Access database which contains collated data from Vemco inspector and cutting crew worksheets for the 2013 regulatory year. This data provided the number of spans that are actively managed by Vemco during the year.

Average vegetation maintenance span cycle (TEF0102)

ElectraNet operates under more than one vegetation maintenance span cycle. Routinely, ElectraNet actively manages all spans on a 3 year cycle. However, for spans in bushfire and high bushfire risk areas, ElectraNet also performs pre-bushfire season vegetation maintenance on an annual basis.

Therefore to reasonably estimate the average vegetation maintenance span cycle, the number of bushfire spans as a proportion of total spans for the 2013 regulatory year was determined and a weighted average span cycle calculated for all spans.

The proportion of bushfire spans to total spans for the 2013 regulatory year was then used to estimate a weighted average span cycle for prior regulatory years.

It is ElectraNet's opinion that this is reasonable as the ratio of bushfire to non-bushfire spans has not changed significantly over the period as it is estimated that the total number of spans has only grown by around 2% over the back-cast period.

Average number of trees per vegetation maintenance span (TEF0103)

Average number of trees per span has been estimated based on expert advice from Vemco. ElectraNet were advised that Vemco sourced information on number of trees per span from an Access database which provides collated information from daily worksheets from inspectors and cutting crews for the 2013 regulatory year.

To estimate the number of trees per vegetation span, ElectraNet were advised that Vemco took the number of trees actively maintained (trimmed, removed or scrub removal) divided by the number of spans requiring vegetation maintenance.

Average number of defects per vegetation maintenance span (TEF0104)

Average number of defects per span was estimated based on advice from Vemco advice. Vemco estimated the average number of defects per vegetation maintenance span by reviewing information for the 2013 regulatory year in an Access database which provides collated daily worksheet information from inspectors and cutting crews.

Note that ElectraNet records the total number of defect for each vegetation maintenance span. Vemco's records identified the total number of defect spans inspected and total number of trees actively maintained (removed or scrub removed) in each defect span. Total number of trees actively maintained within defect spans was divided by the number of defect spans to estimate number of defects per maintenance span.



Tropical Proportion (TEF0105)

The Australian Bureau of Meteorology (BOM) Australian Climatic Zones map (based on temperature and humidity) was used to determine the number of spans in hot humid summer and warm humid summer regions. Link to the zone map is below:

http://www.bom.gov.au/jsp/ncc/climate averages/climate-classifications/index.jsp

ElectraNet reviewed the Climatic Zone map to assess the number of spans ElectraNet has within hot humid summer or warm humid summer climate zones. Based on this assessment, ElectraNet can confirm that 0% proportion of spans is in in hot humid summer and warm humid summer regions.

A copy of the Australian Climatic Zones map used to review the ElectraNet network is included as Figure 8-1: Climate Zones Based on Temperature and Humidity below:

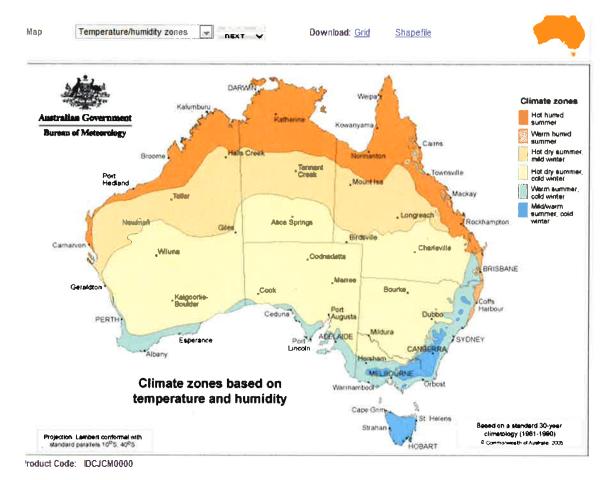


Figure 8-1: Climate Zones Based on Temperature and Humidity

Standard vehicle access - kms

Information for standard vehicle access was sourced from road information from South Australian Government Data Directory (once loaded into the GIS) as well as ElectraNet's internal network data for the GIS system.



Note that reporting standard vehicle access kilometres in ElectaNet's case is likely to be of limited value to the AER as all ElectraNet's access easements are only accessible by diesel vehicles due to bushfire risk consistent with ElectraNet poilcy. ElectraNet's vehicle fleet is almost entirely made up of diesel 4WD vehicles and these are the only type of vehicle used by ElectraNet and its contractors to access asset easements.

However, for the purposes of this response, ElectraNet have calculated standard vehicle access as being the route length that is not able to be accessed by a 2WD vehicle.

As all ElectraNet access (easement) tracks are 4WD only, all Government roads except those that cannot support 2WD access for inspecting line assets are included to calculate the number of kilometres of standard vehicle access. Government roads excluded were roads with a bus thoroughfare as vehicles are not allowed to traverse the bus lane, freeways as they do not enable vehicles to stop to inspect lines and 4WD tracks as these do not enable standard vehicle access. These roads are the nearest access available to a standard vehicle (2WD) to ElectraNet lines. From these 2WD accessible roads a 50m buffer either side of a road is created in the GIS system. The total distance of road contained within this buffer zone is subtracted from the total route length, residual amount of route line length taken to be accessible for a 2WD vehicle. 50m is used as the criteria as this is approximately the longest distance from which it is reasonably possible to inspect a line from the ground clearly (insulator string intact).

Route line length is calculated using a consistent methodology as with TEF0201 (route line length) described in section 8.2 of this response. The calculation includes the regulated network only and excludes lines not owned by ElectraNet.

Altitude (TEF0107)

Altitude information is sourced from the Line Schedules spreadsheet as described in section 6.1 of this response. The spreadsheet is filtered to show the structures that are greater than 600m in altitude. A review was then performed over structures identified as being over 600m in altitude and obvious data anomalies were removed from the list.

Examples of exclusions are structure heights greater than the highest point in South Australia, heights recorded as being over 600m in known low lying areas and structures with no height value entered. We note the number of excluded items and data anomalies is sufficiently small as to be immaterial for the purposes of this calculation.

From the listing, the route length either side of each identified structure is divided by two and summed to calculate a total route line length for this variable.

Bushfire Risk (TEF0108)

The Line Schedule database (using the same preparation methods and assumptions as described in section 6.1 of this response) in the Grazer asset management reporting tool was used as a source for this variable.

To identify bushfire risk areas, ElectraNet relied on the classifications of the Government of South Australia, Office of the Technical Regulator (SA OTR)defined schedule 4 of the Electricity (Principles of Vegetation Clearance) Regulations 2010. Each section in ElectraNet's Line Schedule is historically assigned a bushfire risk, based on data from the SA OTR.



The Line Schedules spreadsheet was filtered to show bushfire risk area by built section. The number of structures assigned as having a bushfire risk was then summed to give the total variable value.

Unregulated and non-ElectraNet owned lines are excluded, which is consistent with the assumptions used for the TEF0204 variable. As ElectraNet is using poles rather than spans for this section, the number of spans is the number of poles less one.

8.1.3 Basis of estimation

The above methodology represents ElectraNet's best estimate of the requirements.

As ElectraNet contracts out vegetation maintenance activities, for TEF0101-TEF0104, ElectraNet have had to rely on estimated information from the contractor to provide the data requirements.

Average number of trees per vegetation maintenance span (TEF0103)

Note that this is an approximation to the nearest thousand and therefore this parameter is not provided to 4 significant figures.

Average number of defects per vegetation maintenance span (TEF0104)

Number of trees (collated through daily worksheets from inspectors/cutting crews for the period) is an approximation to the nearest ten. Hence this parameter is not provided to 4 significant figures.

8.1.4 Changes to accounting policies

N/A - Information reported within 8.1 of the data template relates to non-financial information.

8.2 Network characteristics

8.2.1 Data requirement

Route line length

ElectraNet must input the route line length of lines for ElectraNet's network. This is based on the distance between line segments and does not include vertical components such as line sag. The route line length does not necessarily equate to the circuit length as the circuit length may include multiple circuits.

Variability of Dispatch

ElectraNet must input the Variability of dispatch. This is the proportion of energy dispatch from non-thermal generators.

Concentrated load distance

ElectraNet must input the concentrated load distance. This is the greatest distance (Route Line Length) from node having at least 30 per cent of generation capacity to



node having at least 30 per cent of load, where a node is a connection point from a generation source or location to the (transmission) network at source end and a connection point to a load or distribution system at the destination end.

Where there is no concentrated source or load above 30 per cent, respond relative to the largest concentrated source and load and indicate the generation and load magnitudes.

Total number of spans

ElectraNet must input the total number of spans.

8.2.2 Data source and methodology

Route line length (TEF0201)

Route line length data has been sourced from the same spreadsheet as the circuit length pivot sheet as described in ElectraNet's response in section 6.1. Single circuit kilometres were totalled for each voltage. Note that double and triple circuits were excluded from the listing, as per the AER requirement to report true route line length (not necessarily equal to circuit length).

The filtered spreadsheet only included route line length for regulated lines and de-energised lines. Cables have been excluded from the calculation.

Variability of Dispatch (TEF0202)

A grid entry metering report was run from SAMarket which is an SQL database viewer, which shows thermal versus non-thermal energy generation for each half hour time period for the regulatory year. Non thermal energy generation is taken as a percentage of total energy generation for each of the reporting years.

ElectraNet divided all Wind Farm energy generation by the sum of all Wind Farm energy generation and Power Station energy (as classified in SA Market) generation at every half hour and then averaged these half hours across the year. This analysis excluded the Interconnector. All generators included in the report are listed in Figure 8-2: SA Generators on the following page:



Figure 8-2: SA Generators

- Power Stations
 - ⊕ Canowie (Hallet)
 - Dry Creek Power Station
 - Ladbroke Grove Power Station
 - in Mintaro Power Station
 - H-Northern Power Station
 - ⊕-OCPL
 - Pelican Point Power Station
 - Playford Power Station
 - Port Lincoln Power Station
 - (i) Ouarantine Power Station
 - Snuggery Power Station
 - -Torrens Island A Power Station
 - + Torrens Island B Power Station
- Wind Farms
 - ⊕ Canowie (Hallet)

 - E-Clements Gap Windfarm
 - Hallett Hill Windfarm
 - Mayurra
 - 由 Mt Millan
 - North Brown Hill
 - Porcupine Range (Bluff) WF
 - Snowtown WF Stage 1
 - **⊞** Snowtown WF Stage 2

 - ⊕ Wattle Point

Concentrated Load Distance (TEF0203)

It is unclear what purpose the Concentrated Load Distance (TEF0203) serves in an SA network context. The largest load AMD connection point is the Metro Southern Suburbs (as per T-APR 2013). The largest generation node (by nameplate capacity) is Torrens Island (also SA's Regional Reference Node), which is also metro generation (this generates into the Metro Western suburbs); and these metro nodes can be meshed. For this reason 0km has been entered as the nodes are effectively coincident.

ElectraNet suggests that a more appropriate figure may be the South East Interconnector to Metro Area (approximately 350 km line of sight). This would reflect SA's increased energy reliance on the South East Interconnector.

The Northern generating node (Northern and Playford power stations) to the Metro Area (approximately 250 km line of sight) may also be more appropriate. This is the largest conventional generation centre outside the metro area.

Total Number of Spans (TEF0204)

Total number of spans is calculated from the same spreadsheet as circuit lengths as described in section 6.1 of this response. The spreadsheet was filtered to identify the number of individual spans which were then totalled to identify the total number of spans for each regulatory year.



The filtered spreadsheet only included route line length for regulated lines and deenergised lines only. Cables and have been excluded from the calculation.

8.2.3 Basis of estimation

N/A

8.2.4 Changes to accounting policies

N/A – Information reported within 8.2 of the data template relates to non-financial information.

8.3 Weather stations

8.3.1 Data requirement

ElectraNet must input the weather station number, post code, suburb/locality for all weather stations in its service area. The weather station details are available from the BOM.

Where ElectraNet considers weather data from a weather station is not relevant to the management of its network, ElectraNet must input a 'no' in the 'Materiality' column and provide supporting evidence (in its Basis of Preparation) as to why the weather station is not relevant. For all other weather stations, ElectraNet must input a 'yes' in the 'Materiality' column.

ElectraNet must also input a Variable code for each weather station (for example, TEF03001 for the first weather station).

ElectraNet must add (or remove) rows from Table 8.3 such that all weather stations within its network will be included.

8.3.2 Data source and methodology

ElectraNet reviewed a number of data sources to prepare a list of weather stations in accordance with the requirements set out in the instructions and definitions. ElectraNet used the GIS system to identify all ElectraNet weather stations in ElectraNet's service area.

To establish BOM weather stations used in the management of the network, ElectraNet reviewed weather station data from the Australian Bureau of Meteorology (BOM) to identify the weather station name, location and weather station type.

ElectraNet downloaded BOM weather station data from the link identified below as a text file that was pasted into an excel spreadsheet. The data in the spreadsheet was filtered to identify all active South Australian stations:

http://www.bom.gov.au/climate/cdo/about/sitedata.shtml - All BOM stations

The South Australian Government Data Directory suburbs data available at the link below was then used to apply suburb names to each weather station based on the weather station location in the spreadsheet:



http://data.sa.gov.au/dataset/suburb-boundaries/

Suburb names were then matched to postcodes in the spreadsheet using the Australian Bureau of Statistics post code data available as per the link below:

http://www.ausstats.abs.gov.au/ausstats/subscriber.nsf/0/33A877E7086CA98FCA25731 A00217F82/\$File/2923030001poa06aaust.zip

This provided a list included in the data template which includes all in-service BOM weather stations in ElectraNet's service area.

The BOM weather text file used to derive base BOM weather site information was uploaded to ElectraNet's GIS system. Two spatial intersection queries were produced, BOM site to post code and BOM site to post code to suburb and exported to an excel spreadsheet.

8.3.3 Basis of estimation

A weather station is classed as material if it is within 50km of the ElectraNet network (including unregulated and non-ElectraNet lines, this is as the weather does not change due to classification and the use of power at the end of a non-ElectraNet line due to local weather will affect ElectraNet's network). The 50km figure is chosen as it gives a reasonable representation of the conditions experienced by the network (distance at which weather (temp and wind) is likely to be consistent).

Note that weather sites situated over water or in the Far North West of SA will not have a suburb or postcode.

Note that as a post code can exist across multiple suburbs. To produce a unique list of BOM weather stations to postcode to suburb, the first Post code suburb match was used.

8.3.4 Changes to accounting policies

N/A – Information reported within 8.3 of the data template relates to non-financial information.

STATUTORY DECLARATION FRANCIS STIRLING AST TERRACE in the State of South Australia do solemnly and sincerely declare that: 1. I am an officer, for the purposes of the National Electricity (South Australia) Law (NEL), of ElectraNet Pty Limited (ACN 094 482 416), a regulated network service provider for the purposes of section 28D of the NEL. I am authorised by ElectraNet Pty Limited to make this statutory declaration as part of the response of ElectraNet Pty Limited (ElectraNet) to the Regulatory Information Notice dated 28 November 2013 (Notice) served on ElectraNet by the Australian Energy Regulator (AER). Having had regard to the Notice, I say that the actual information provided in ElectraNet's response to the 2. Notice is, to the best of my information, knowledge and belief: (a) in accordance with the requirements of the Notice; and (b) true and accurate. 3. Where it is not possible to provide actual information to comply with the Notice, ElectraNet has, to the best of my information, knowledge and belief, for the purposes of complying with the Notice: (a) provided ElectraNet's best estimate of the information in accordance with the requirements of the Notice; and (b) provided the basis for each estimate, including assumptions made and reasons why the estimate is the best estimate, given the information sought in the Notice. And I make this solemn declaration conscientiously believing the same to be true, and by virtue of the provisions of the Oaths Act, 1936. Signature Declared and subscribed at in the said State by the said

Before me:

DOROTHY ANNE SHORNE J.P 23893

Note- This Declaration must be signed before a Justice of the Peace, a Commissioner for Taking Affidavits, or a Notary

Any alteration made must be initialled by both the applicant and the Justice of the Peace.

DOROTHY SHORNE JUSTICE of the PEACE 23893













