

SP AUSNET - Proposed exclusions

CIRCUIT AVAILABILITY	Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Circuits affected	Reactive plant or transformer	Quantitative impact	Reasons for exclusion request	Further references	Comments	
Name of any circuit availability parameters applying to SP AusNet	Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted.	A description of the cause of the event	Start date and time of event	End date and time of event	Name of circuits affected	Name of any reactive plant or transformer affected	Impact of exclusion event on availability sub-parameter	Impact on total circuit availability performance	Full details of the reason/s for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see Exclusion definition tab). Eg. Exclusion 1.2 Third party event.	A TNSP may provide further details of an exclusion event. TNSP to provide reference.	Details of reference attachments if applicable		
S1 Total circuit availability	PTH No1 Line VSCAP to Alcoa	Outage requested by APDALCOA	APDALCOA	12/02/13	06:32:00	12/02/13	12:18:00	PT. HENRY NO.1 220KV LINE AT GTS		5.767	0.000%	EXCLUDE 1.3 Third party outage	WO # 10383655	WO 10383655 GTSPTH No1 12Feb.pdf
	HYTS No 2 Line off-load at APD	Outage requested by APDALCOA	APDALCOA	20/02/13	10:46:00	20/02/13	13:23:00	HYTS-APD 2 500KV W		2.617	0.000%	EXCLUDE 1.3 Third party outage	WO # 10384542	WO 10384542 HYTS-APD 2 de-en 20 Feb 13.pdf
	APD Switching	Outage requested by APDALCOA	APDALCOA	24/02/13	08:32:00	24/02/13	08:43:00	HYTS-APD 2 500KV W		0.183	0.000%	EXCLUDE 1.3 Third party outage	WO # 10384837	WO 10384837 HYTSAPD No2 24Feb.pdf
	APD Work	Outage requested by APDALCOA	APDALCOA	4/03/13	07:30:00	28/03/13	12:26:00	HYTS-APD 2 500KV W		580.933	0.031%	EXCLUDE 1.3 Third party outage	WO # 10384910	WO 10384910 Second HYTS-APD2 4-28 Mar.pdf
	APD Wwork	Outage requested by APDALCOA	APDALCOA	2/04/13	11:07:00	23/04/13	14:02:00	HYTS NO.1 500KV LINE AT APD		506.917	0.027%	EXCLUDE 1.3 Third party outage	WO # 10386558	WO 10386558 HYTSAPD No1 APRIL.pdf
	Transgrid Outage	Outage requested by TRANSGRD	TRANSGRD	3/04/13	08:16:00	3/04/13	16:22:00	MSS -DDTS 2 330KV NW		8.100	0.000%	EXCLUDE 1.3 Third party outage	WO # 10386529	WO 10386529 MSSDDTS No2 APRIL.pdf
	Transgrid Outage	Outage requested by TRANSGRD	TRANSGRD	4/04/13	07:08:00	4/04/13	15:44:00	MSS -DDTS 1 330KV NW		8.600	0.000%	EXCLUDE 1.3 Third party outage	WO # 10386534	WO 10386534 MSSDDTS No1 APRIL.pdf
	AGL Hydro Request	Outage requested by STHHYDRO	STHHYDRO	11/04/13	08:54:00	11/04/13	10:17:00	WKPS 220KV LINE AT MBTS		1.383	0.000%	EXCLUDE 1.3 Third party outage	WO # 10388994	WO 10388994 MBTS-WKPS 11 Apr 13.pdf
	Rebate Outage	Outage caused by HVCUST remote trip	REM_TRIP	17/04/13	15:39:00	17/04/13	16:25:00	HWPS-JLTS 3 220KV G		0.767	0.000%	EXCLUDE 1.3 Third party outage	WO # 10388097	WO 10388097 INCIDENT-10388011-AEMO.pdf
	Rebate Outage	Outage caused by HVCUST remote trip	REM_TRIP	17/04/13	15:39:00	17/04/13	16:25:00	JLTS-MWTS 2 220KV G		0.767	0.000%	EXCLUDE 1.3 Third party outage	WO # 10388098	WO 10388097 INCIDENT-10388011-AEMO.pdf
	VSCAP to DOC	Outage requested by DISTCO	DBPROX	23/04/13	08:34:00	23/04/13	14:11:00	JDSS-WOTS 330KV NW		5.617	0.000%	EXCLUDE 1.3 Third party outage	WO # 10386846	WO 10386846 JDSSWOTS APRIL.pdf
	APD Insulator washing	Outage requested by APDALCOA	APDALCOA	1/05/13	08:10:00	1/05/13	09:02:00	HYTS-APD 1 500KV W		0.867	0.000%	EXCLUDE 1.3 Third party outage	WO # 10388564	WO 10388564 HYTS-APD No1.pdf
	APD Insulator washing	Outage requested by APDALCOA	APDALCOA	2/05/13	08:32:00	2/05/13	10:04:00	HYTS-APD 2 500KV W		1.533	0.000%	EXCLUDE 1.3 Third party outage	WO # 10388566	WO 10388566 HYTS-APD No2.pdf
	Rebate record for line remote trip	Outage requested by HVCUST	REM_TRIP	14/05/13	07:33:00	14/05/13	12:50:00	TBTS-JLA 2 220KV E		5.283	0.000%	EXCLUDE 1.3 Third party outage	WO # 10391406	WO 10391406 TBTS-JLA No2.pdf
	outage for Genco	Outage requested by STHHYDRO	STHHYDRO	2/06/13	09:43:00	7/06/13	11:54:00	WKPS-MBTS 220KV NW		122.183	0.007%	EXCLUDE 1.3 Third party outage	WO # 10395135	WO 10395135 MBTS-WKPS 2-7 Jun 13.pdf
	rebate child for genco outage	Outage requested by GENCO	GENCO	6/06/13	05:00:00	6/06/13	18:00:00	JLTS NO.3 220KV LINE AT HWPS		13.000	0.001%	EXCLUDE 1.3 Third party outage	WO # 10395124	WO 10395124 HWPS AUX C 6-jun-13.pdf
	SCAP to Genco	Outage requested by GENCO	GENCO	17/06/13	05:01:00	17/06/13	13:03:00	JLTS NO.1 220KV LINE AT HWPS		8.033	0.000%	EXCLUDE 1.3 Third party outage	WO # 10392860	WO 10392860 HWPS SCAP Application 4223.pdf
	HYTS-APD No2 500kV Line off loaded at APD for APD	Outage requested by APDALCOA	APDALCOA	24/06/13	07:32:00	24/06/13	16:00:00	HYTS-APD 2 500KV W		8.467	0.000%	EXCLUDE 1.3 Third party outage	WO # 10393787	WO 10393787 second HYTS-APD No2.pdf
	HYTS-APD No2 500kV Line off loaded at APD for APD	Outage requested by APDALCOA	APDALCOA	25/06/13	07:31:00	25/06/13	15:02:00	HYTS-APD 2 500KV W		7.517	0.000%	EXCLUDE 1.3 Third party outage	WO # 10393787	WO 10393787 second HYTS-APD No2.pdf
	HYTS-APD No2 500kV Line off loaded at APD for APD	Outage requested by APDALCOA	APDALCOA	26/06/13	07:41:00	26/06/13	16:22:00	HYTS-APD 2 500KV W		8.683	0.000%	EXCLUDE 1.3 Third party outage	WO # 10393787	WO 10393787 second HYTS-APD No2.pdf
	HYTS-APD No2 500kV Line off loaded at APD for APD	Outage requested by APDALCOA	APDALCOA	27/06/13	07:30:00	27/06/13	15:45:00	HYTS-APD 2 500KV W		8.250	0.000%	EXCLUDE 1.3 Third party outage	WO # 10393787	WO 10393787 second HYTS-APD No2.pdf
	PTH Outage	Outage requested by APDALCOA	APDALCOA	18/07/13	07:56:00	18/07/13	14:19:00	GTS-PTH 2 220KV WY		6.383	0.000%	EXCLUDE 1.3 Third party outage	WO # 10394602	WO 10394602 GTS-PTH2 18 Jul 13.pdf
	PTH Outage	Outage requested by APDALCOA	APDALCOA	30/07/13	07:50:00	30/07/13	15:54:54	GTS-PTH 2 220KV WY		8.082	0.000%	EXCLUDE 1.3 Third party outage	WO # 10395282	WO 10395282 GTS-PTH2 30 Jul 13.pdf
	APD Outage	Outage requested by APDALCOA	APDALCOA	27/08/13	09:12:00	27/08/13	09:58:00	HYTS-APD 2 500KV W		0.767	0.000%	EXCLUDE 1.3 Third party outage	WO # 10396840	WO 10396840 APD 27-28 Aug 13.pdf
	Transgrid Work	Outage requested by TRANSGRD	TRANSGRD	11/09/13	05:48:00	11/09/13	21:21:00	BSS 220KV LINE AT RCTS		15.550	0.001%	EXCLUDE 1.3 Third party outage	WO # 10397178	WO 10397178 Notification - 131396 - 2.pdf
	APD CB refurb	Outage requested by APDALCOA	APDALCOA	23/09/13	07:32:00	30/09/13	23:59:59	HYTS-APD 1 500KV W		184.467	0.010%	EXCLUDE 1.3 Third party outage	WO # 10398110	WO 10398110 APD CB 5500 23 Sep - 18 Oct 13.pdf
	APD CB refurb	Outage requested by APDALCOA	APDALCOA	1/10/13	00:00:00	25/10/13	13:45:00	HYTS-APD 1 500KV W		589.750	0.032%	EXCLUDE 1.3 Third party outage	WO # 10398110	WO 10398110 APD CB 5500 23 Sep - 18 Oct 13.pdf
	BETS-FVTS-SHTS Line outage for work at FVTS	Outage requested by HVCUST	HVCUST	1/10/13	07:11:00	1/10/13	16:07:00	BETS/SHTS 220KV LINE AT FVTS		8.933	0.000%	EXCLUDE 1.3 Third party outage	WO # 10397104	WO 10397104 FVTS Outage 1 Oct 13.pdf
	VSCAP to Genco	Outage requested by GENCO	GENCO	24/11/13	12:58:00	29/11/13	11:08:23	DPS -MBTS 220KV NW		118.173	0.006%	EXCLUDE 1.3 Third party outage	WO # 10410806	WO 10410806 VSCAP DPS-MBTS 220KV Line.pdf
	APD Insulator Washing	Outage requested by APDALCOA	APDALCOA	4/12/13	08:00:00	4/12/13	08:46:00	HYTS-APD 1 500KV W		0.767	0.000%	EXCLUDE 1.3 Third party outage	WO # 10411909	WO 10411909 second APD Insul Washing 4-5 Dec 13.pdf
	Rebate child M2 Trans	Outage requested by APDALCOA	APDALCOA	4/12/13	08:00:00	4/12/13	08:46:00	M2 500/279KV TRANS AT HYTS		0.767	0.000%	EXCLUDE 1.3 Third party outage	WO # 10411910	WO 10411909 second APD Insul Washing 4-5 Dec 13.pdf
	APD Insulator Washing	Outage requested by APDALCOA	APDALCOA	5/12/13	08:05:00	5/12/13	08:36:00	HYTS-APD 2 500KV W		0.517	0.000%	EXCLUDE 1.3 Third party outage	WO # 10411911	WO 10411909 second APD Insul Washing 4-5 Dec 13.pdf
	MKPS Outage for AGL Hydro	Outage requested by STHHYDRO	STHHYDRO	9/12/13	10:15:00	10/12/13	19:43:00	MKPS-BOPS-MBTS 220KV NW		33.467	0.002%	EXCLUDE 1.3 Third party outage	WO # 10411918	WO 10411918 MBTS-WKPS 220 kv line.pdf
	APD SD replacement	Outage requested by APDALCOA	APDALCOA	11/12/13	08:04:00	11/12/13	14:07:00	HYTS-APD 2 500KV W		6.050	0.000%	EXCLUDE 1.3 Third party outage	WO # 10412232	WO 10412232 APD-HYTS No2 11-12-13.pdf

Hours in exclusion events	2279,138
Circuit Hours available	1848360
Exclusion hours of total hours - %	0.123306%

CIRCUIT AVAILABILITY	Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Circuits affected	Reactive plant or transformer	Calculated hours	Peak hours	Off-peak hours	Quantitative Impact	Reasons for exclusion request	Further references	Comments
Name of any circuit availability parameters applying to SP BusNet	Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted.	A description of the cause of the event	Start date and time of event		End date and time of event		Name of circuits affected	Name of any reactive plant or transformer affected	Total number of hours of event	Number of peak hours in total hours	Number of off-peak hours in total hours	Exclusion impact on peak critical availability performance (%)	Full details of the reason/s for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see Exclusion definition tab). Eg. Exclusion 1.2 Third party event.	A TNSP may provide further details of an exclusion event. TNSP to provide reference.	Details of reference attachments if applicable
S2	Peak critical availability	PTH No1 Line VSCAP to Alcoa	Outage requested by APDALCOA	APDALCOA	12/02/13	06:32:00	12/02/13	12:18:00	PT. HENRY NO.1 220KV LINE AT GTS	5.767	1.300	4.467	0.001%	EXCLUDE 2.3 Third party outage	WO # 10383655	WO 10383655 GTSPTH No1 12FEB.pdf
		HYTS No 2 Line off-load at APD	Outage requested by APDALCOA	APDALCOA	20/02/13	10:46:00	20/02/13	13:23:00	HYTS-APD 2 500KV W	2.617	2.383	0.233	0.002%	EXCLUDE 2.3 Third party outage	WO # 10384542	WO 10384542 HYTS-APD 2 de-en 20 Feb 13.pdf
		APD Work	Outage requested by APDALCOA	APDALCOA	4/03/13	07:30:00	28/03/13	12:26:00	HYTS-APD 2 500KV W	580.933	99.000	481.933	0.081%	EXCLUDE 2.3 Third party outage	WO # 10384910	WO 10384910 Second HYTS-APDZ 4-28 Mar.pdf
		VSCAP to Genco	Outage requested by GENCO	GENCO	24/11/13	12:58:00	29/11/13	11:08:23	DPS -MBTS 220KV NW	118.173	44.140	74.033	0.036%	EXCLUDE 2.3 Third party outage	WO # 10410806	WO 10410806 VSCAP DPS-MBTS 220KV Line.pdf
		MKPS Outage for AGL Hydro	Outage requested by STHHYDRO	STHHYDRO	9/12/13	10:15:00	10/12/13	19:43:00	MKPS-BOPS-MBTS 220KV NW	33.467	19.717	13.750	0.016%	EXCLUDE 2.3 Third party outage	WO # 10411918	WO 10411918 MBTS-WKPS 220 kV line.pdf
		APD SD replacement	Outage requested by APDALCOA	APDALCOA	11/12/13	08:04:00	11/12/13	14:07:00	HYTS-APD 2 500KV W	6.050	3.117	2.933	0.003%	EXCLUDE 2.3 Third party outage	WO # 10412232	WO 10412232 APD-HYTS No2 11-12-13.pdf

Peak Hours in exclusion events	169.656
Circuit Hours available	122892
Exclusion hours of total hours - %	0.13805%

CIRCUIT AVAILABILITY		Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Circuits affected	Reactive plant or transformer	Calculated hours	Peak hours	Off-peak hours	Quantitative Impact	Reasons for exclusion request	Further references	Comments
Name of any circuit availability parameters applying to SP available		Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted.	A description of the cause of the event	Start date and time of event		End date and time of event		Name of circuits affected	Name of any reactive plant or transformer affected	Total number of hours of event	Number of peak hours in total hours	Number of off-peak hours in total hours	Exclusion impact on peak non-critical availability performance (%)	Full details of the reason/s for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see "Exclusion definition tabs). Eg. Exclusion 1.2 Third party event.	A TNSP may provide further details of an exclusion event. TNSP to provide reference.	Details of reference attachments if applicable
S3	Peak non-critical availability	Prot Trip of 220kV Shunt Reactor at MLTS		FAULT	14/01/13	01:36:00	14/01/13	15:04:00		220KV SHUNT REACTOR AT MLTS	13.467	4.067	9.400	0.008%	EXCLUDE 3.7 Shunt reactor	WO # 10383178	NB: Although the capturing of this outage was omitted in the original Input Exclusions list, its effect HAS been included in S3 calculations
		O/Haul - 66kV reactor		SPIMAIN	5/02/13	07:15:00	5/02/13	15:30:00		NO.3 66KV REACTOR AT RCTS	8.250	4.500	3.750	0.008%	EXCLUDE 3.7 Shunt reactor	WO # 10356242	
		Rebate Child		SPIMAIN	20/11/13	10:25:00	20/11/13	13:55:00		NO.3 66KV REACTOR AT RCTS	3.500	2.917	0.583	0.005%	EXCLUDE 3.7 Shunt reactor	WO # 10412327	
		Rebate Child		SPIMAIN	21/11/13	07:05:00	21/11/13	14:54:00		NO.2 66KV REACTOR AT RCTS	7.817	3.900	3.917	0.007%	EXCLUDE 3.7 Shunt reactor	WO # 10412328	
		O/Haul 66KV SHUNT REACTOR		SPIMAIN	26/11/13	07:24:00	26/11/13	14:12:00		NO.1 66KV REACTOR AT HOTS	6.800	3.200	3.600	0.006%	EXCLUDE 3.7 Shunt reactor	WO # 10368074	
		Condition monitoring 220kV Shunt Reactor		SPIMAIN	18/12/13	06:52:00	19/12/13	13:31:00		220KV SHUNT REACTOR AT MLTS	30.650	13.517	17.133	0.025%	EXCLUDE 3.7 Shunt reactor	WO # 10411648	

Peak Hours in exclusion events	32.100
Circuit Hours available	53504
Exclusion hours of total hours - %	0.06000%

CIRCUIT AVAILABILITY	Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Circuits affected	Reactive plant or transformer	Calculated hours	Intermediate hours	Off-peak hours	Quantitative Impact	Reasons for exclusion request	Further references	Comments
Name of any circuit availability parameters applying to SP BusNet	Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted.	A description of the cause of the event	Start date and time of event		End date and time of event		Name of circuits affected	Name of any reactive plant or transformer affected	Total number of hours of event	Number of intermediate hours in total hours	Number of off-peak hours in total hours	Exclusion impact on intermediate critical availability performance (%)	Full details of the reason/s for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see Exclusion definition tab). Eg: Exclusion 1.2 Third party event.	A TNSP may provide further details of an exclusion event. TNSP to provide reference.	Details of reference attachments if applicable
S4 Intermediate critical availability	outage for Genco	Outage requested by STHHYDRO	STHHYDRO	2/06/13	08:43:00	7/06/13	11:54:00	WKPS-MBTS 220KV NW		122.183	64.900	57.283	0.046%	EXCLUDE 4.3 Third party outage	WO # 10395135	WO 10395135 MBTS-WKPS 2-7 Jun 13.pdf
	rebate child for genco outage	Outage requested by GENCO	GENCO	6/06/13	05:00:00	6/06/13	18:00:00	JLTS NO.3 220KV LINE AT HWPS		13.000	11.000	2.000	0.008%	EXCLUDE 4.3 Third party outage	WO # 10395124	WO 10395124 HWPS AUX C 6-jun-13.pdf
	SCAP to Genco	Outage requested by GENCO	GENCO	17/06/13	05:01:00	17/06/13	13:03:00	JLTS NO.1 220KV LINE AT HWPS		8.033	6.050	1.983	0.004%	EXCLUDE 4.3 Third party outage	WO # 10392860	WO 10392860 HWPS SCAP Application 4223.pdf
	HYTS-APD No2 500kV Line off loaded at APD for APD	Outage requested by APDALCOA	APDALCOA	24/06/13	07:32:00	24/06/13	16:00:00	HYTS-APD 2 500KV W		8.467	8.467		0.006%	EXCLUDE 4.3 Third party outage	WO # 10393787	WO 10393787 second HYTS-APD No2.pdf
	HYTS-APD No2 500kV Line off loaded at APD for APD	Outage requested by APDALCOA	APDALCOA	25/06/13	07:31:00	25/06/13	15:02:00	HYTS-APD 2 500KV W		7.517	7.517		0.005%	EXCLUDE 4.3 Third party outage	WO # 10393787	WO 10393787 second HYTS-APD No2.pdf
	HYTS-APD No2 500kV Line off loaded at APD for APD	Outage requested by APDALCOA	APDALCOA	26/06/13	07:41:00	26/06/13	16:22:00	HYTS-APD 2 500KV W		8.683	8.683		0.006%	EXCLUDE 4.3 Third party outage	WO # 10393787	WO 10393787 second HYTS-APD No2.pdf
	HYTS-APD No2 500kV Line off loaded at APD for APD	Outage requested by APDALCOA	APDALCOA	27/06/13	07:30:00	27/06/13	15:45:00	HYTS-APD 2 500KV W		8.250	8.250		0.006%	EXCLUDE 4.3 Third party outage	WO # 10393787	WO 10393787 second HYTS-APD No2.pdf
	PTH Outage	Outage requested by APDALCOA	APDALCOA	18/07/13	07:56:00	18/07/13	14:19:00	GTS -PTH 2 220KV WY		6.383	6.383		0.005%	EXCLUDE 4.3 Third party outage	WO # 10394602	WO 10394602 GTS-PTH2 18 Jul 13.pdf
	PTH Outage	Outage requested by APDALCOA	APDALCOA	30/07/13	07:50:00	30/07/13	15:54:54	GTS -PTH 2 220KV WY		8.082	8.082		0.006%	EXCLUDE 4.3 Third party outage	WO # 10395282	WO 10395282 GTS-PTH2 30 Jul 13.pdf
	APD Outage	Outage requested by APDALCOA	APDALCOA	27/08/13	09:12:00	27/08/13	09:58:00	HYTS-APD 2 500KV W		0.767	0.767		0.001%	EXCLUDE 4.3 Third party outage	WO # 10396840	WO 10396840 APD 27-28 Aug 13.pdf

Intermediate Hours in exclusion events	130.098
Circuit Hours available	141120
Exclusion hours of total hours - %	0.09219%

CIRCUIT AVAILABILITY	Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Circuits affected	Reactive plant or transformer	Calculated hours	Intermediate hours	Off-peak hours	Quantitative Impact	Reasons for exclusion request	Further references	Comments
Name of any circuit availability parameters applying to SP BusNet	Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted.	A description of the cause of the event	Start date and time of event		End date and time of event		Name of circuits affected	Name of any reactive plant or transformer affected	Total number of hours of event	Number of intermediate hours in total hours	Number of off-peak hours in total hours	Exclusion impact on intermediate/non-critical availability performance (%)	Full details of the reasons for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see Exclusion definition tab). Eg. Exclusion 1.2 Third party event.	A TNSP may provide further details of an exclusion event. TNSP to provide reference.	Details of reference attachments if applicable
S5	Intermediate non-critical availability	Rebate w/o Shunt React during No2 220kV Bus outage	SPIMAIN	4/06/13	06:50:00	4/06/13	15:57:00		220KV SHUNT REACTOR AT MLTS	9.117	8.950	0.167	0.015%	EXCLUDE 5.7 Shunt reactor	WO # 10389087	
		Rebate w/o Shunt React during No2 220kV Bus outage	SPIMAIN	5/06/13	06:59:00	5/06/13	16:38:00		220KV SHUNT REACTOR AT MLTS	9.600	9.583	0.017	0.016%	EXCLUDE 5.7 Shunt reactor	WO # 10389087	
		Rebate w/o Shunt React during No2 220kV Bus outage	SPIMAIN	6/06/13	06:58:00	6/06/13	15:45:00		220KV SHUNT REACTOR AT MLTS	8.783	8.750	0.033	0.014%	EXCLUDE 5.7 Shunt reactor	WO # 10389087	
		OVERHAUL OF A 220KV SHUNT REACTOR	SPIMAIN	18/06/13	07:33:00	21/06/13	13:22:00		220KV SHUNT REACTOR AT MLTS	77.817	60.817	27.000	0.083%	EXCLUDE 5.7 Shunt reactor	WO # 10366882	
		HYTS-APD 1 line trip	FAULT	4/07/13	14:51:00	4/07/13	17:12:00		TRTS NO.1 500KV LINE SHUNT REACTOR AT MLTS	2.350	2.350		0.004%	EXCLUDE 5.7 Shunt reactor	WO # 10394316	NB: Although the capturing of this outage was omitted in the original Input Exclusions list, its effect HAS been included in S5 calculations
		Resample of 220kv Sh React CB CT's - Code Amber	SPIMAIN	30/07/13	08:37:00	30/07/13	09:33:00		220KV SHUNT REACTOR AT MLTS	0.933	0.933		0.002%	EXCLUDE 5.7 Shunt reactor	WO # 10395939	
		Rebate W/o 220kV Shunt React during CB SF6 top up	SPIMAIN	22/08/13	09:45:00	22/08/13	10:42:00		220KV SHUNT REACTOR AT MLTS	0.950	0.950		0.002%	EXCLUDE 5.7 Shunt reactor	WO # 10396614	

Intermediate Hours in exclusion events	82.333
Circuit Hours available	61440
Exclusion hours of total hours - %	0.13401%