TEMPLATE EXPLANATION



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

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

Purple worksheets 'S1' to 'S6' are the s-factor results based on the performance inputs from the 'Inputs - Performance' worksheet.

Blue worksheet 'Revenue Calculation' quantifies the appropriate revenue to be applied to the s-factor results adjusted for CPI.

Red worksheet 'Outcomes' shows the total performance, s-factor and financial incentive results based on the TNSP's performance in 'Inputs-Performance' and 'Revenue Calculation' worksheets.

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

TransGrid - SERVICE STANDARDS PERFORMANCE

| | Performance Inputs | | | | | | | | | | | | | | |
|----|---|--------|--------|--------|-----------------|--|-------------------------------------|----------|--|--|--|--|--|--|--|
| s | Performance parameter | Collar | Target | Сар | Revenue at Risk | Performance (Without exclusions) | Performance (With exclusions) | Checksum | | | | | | | |
| S1 | Transmission line availability | 99.05% | 99.26% | 99.36% | 0.20% | 98.573202% | 98.949516% | 0.00 | | | | | | | |
| S2 | Transformer availability | 97.33% | 98.61% | 98.89% | 0.15% | 97.491813% | 97.500575% | 0.00 | | | | | | | |
| S3 | Reactive plant availability | 98.65% | 99.12% | 99.33% | 0.10% | 98.285587% | 98.285587% | | | | | | | | |
| S4 | Loss of supply event frequency >0.05 system minutes | 7 | 4 | 2 | 0.250% | 5 | 4 | 0.00 | | | | | | | |
| | Loss of supply event frequency >0.25 system minutes | 2 | 1 | 0 | 0.100% | 0 | 0 | 0.00 | | | | | | | |
| S6 | Average outage duration | 999 | 824 | 649 | 0.200% | 1467 | 1494.8067 | -4045.87 | | | | | | | |

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

| Other inputs | | | | | | | | | | |
|-----------------------------------|------------|--|--|--|--|--|--|--|--|--|
| Assessment Period | 2013 | | | | | | | | | |
| Financial year to affect revenue: | 2014/15 | | | | | | | | | |
| Date prepared: | | | | | | | | | | |
| Revision date: | | | | | | | | | | |
| Network is | nformation | | | | | | | | | |
| No of circuits | 201.5 | | | | | | | | | |
| No of transformers | 181.91667 | | | | | | | | | |
| No of reactive plant | 131 | | | | | | | | | |

| information - | age duration performance exclusions |
|--|---|
| Number of events | 124 |
| Total unplanned outage duration | |
| (system minutes) | 181900 |

| Average outage duration | | | | | | | | | | | |
|---------------------------|----------|--|--|--|--|--|--|--|--|--|--|
| information - performance | | | | | | | | | | | |
| with exc | clusions | | | | | | | | | | |
| Number of | | | | | | | | | | | |
| excluded | | | | | | | | | | | |
| connection | | | | | | | | | | | |
| point events | 5 | | | | | | | | | | |
| Total | | | | | | | | | | | |
| unplanned | | | | | | | | | | | |
| outage | | | | | | | | | | | |
| duration | | | | | | | | | | | |
| (system | | | | | | | | | | | |
| minutes) | 177882 | | | | | | | | | | |
| Total number | | | | | | | | | | | |
| of | | | | | | | | | | | |
| connection | | | | | | | | | | | |
| point events | 119 | | | | | | | | | | |

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

NOTE:

Pink cells - Performance without exclusions input cells

Orange cells - Performance with exclusions input cells

Green cells - Other inputs

Blue cells - Inputs sourced from the revenue determination

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

TransGrid - Proposed exclusions

| TransGrid - Propose CIRCUIT AVAILABILITY | Event proposed for exclusion | Description of the event and its impact on the network and | Cause of the event | Start date Start time | End date | End time | Total hours unavailable | Circuits affected | Reactive plant or transformer | Quantitative impact | Reasons for exclusion request | Further references |
|---|------------------------------|---|---|------------------------------|--------------------|-------------|----------------------------|------------------------------------|--------------------------------|---|--|--|
| Name of any circuit availability parameters | Name of the event | performance 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 event | time of | | Name of circuits or plant affected | Name of any equipment affected | Impact of exclusion event on availability sub-parameter | Full details of the reason/s for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see Exclusion definition (see Exclusion definition). | A TNSP may provide further details of an exclusion event. TNSP to provide reference. |
| S1 | 124472 | TL 3W switched out for voltage control | Request from AEMO | 1/01/13 0:0 | 0 4/01/13 | 23:44 | 95.73 | 3W | | -0.000054235547 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 124952 | as directed by AEMO TL 3W switched out for voltage control | Request from AEMO | 5/01/13 2:1 | 7 5/01/13 | 10:38 | 8.35 | 3W | | -0.000004730503 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 124961 | as directed by AEMO TL 3W switched out for voltage control | Request from AEMO | 5/01/13 19:2 | 6 6/01/13 | 15:38 | 20.20 | 3W | | -0.000011443851 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 124980 | as directed by AEMO TL 3W switched out for voltage control | Request from AEMO | 6/01/13 19:5 | 1 7/01/13 | 7:47 | 11.93 | 3W | | -0.000006760559 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 125315 | as directed by AEMO TL 3W switched out for voltage control | Request from AEMO | 11/01/13 22:2 | 1 12/01/13 | 20:17 | 21.93 | 3W | | -0.000012425832 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 125367 | as directed by AEMO TL 3W switched out for voltage control | Request from AEMO | 14/01/13 8:1 | 6 16/01/13 | 8:24 | 48.13 | 3W | | -0.000027268847 | Exclusion 1.3 - Outage to control fault levels | |
| | 125544 | as directed by AEMO TL 3W switched out for voltage control | Request from AEMO | 16/01/13 21:2 | 7 17/01/13 | 7:30 | 10.05 | 3W | | -0.000005693599 | <u> </u> | |
| S1 | 125690 | as directed by AEMO TL 3W switched out for voltage control | Request from AEMO | 20/01/13 20:3 | 6 21/01/13 | 6:36 | 10.00 | 3W | | -0.000005665273 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | | as directed by AEMO TL 3W switched out for voltage control | | 21/01/13 22:0 | | 6:40 | | | | -0.000004843808 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | | as directed by AEMO TL 3W switched out for voltage control | | 22/01/13 22:4 | | 8:23 | | | | -0.000005476431 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | | as directed by AEMO TL 3W switched out for voltage control | | 23/01/13 21:3 | | | | | | -0.000005476431 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | | as directed by AEMO TL 3W switched out for voltage control | | 25/01/13 22:2 | | | | | | -0.000005750252 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | | as directed by AEMO TL 3W switched out for voltage control | | | | 11:14 | | | | | Exclusion 1.3 - Outage to control fault levels | |
| S1 | | as directed by AEMO | · | 26/01/13 22:2 | | | | | | -0.000007251549 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | | TL 3W switched out for voltage control as directed by AEMO | | 30/01/13 20:5 | | | | | | -0.000005929652 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | | TL 3W switched out for voltage control as directed by AEMO | | 31/01/13 22:2 | | | | | | -0.000005419778 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | | TL 3W switched out for voltage control as directed by AEMO | | 1/02/13 18:3 | | | | | | -0.000017118567 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 126641 | TL 3W switched out for voltage control as directed by AEMO | Request from AEMO | 3/02/13 6:4 | 3 4/02/13 | 7:45 | 25.03 | 3W | | -0.000014182067 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 126754 | TL 3W switched out for voltage control as directed by AEMO | Request from AEMO | 4/02/13 18:5 | 9 5/02/13 | 6:33 | 11.57 | 3W | | -0.000006552832 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 126843 | TL 3W switched out for voltage control as directed by AEMO | Request from AEMO | 5/02/13 21:3 | 6 6/02/13 | 7:49 | 10.22 | 3W | | -0.000005788021 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 126965 | TL 3W switched out for voltage control as directed by AEMO | Request from AEMO | 6/02/13 23:1 | 7 7/02/13 | 7:33 | 8.27 | 3W | | -0.000004683292 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 127172 | TL 3W switched out for voltage control as directed by AEMO | Request from AEMO | 7/02/13 22:4 | 3 8/02/13 | 7:48 | 9.08 | 3W | | -0.000005145956 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 127335 | TL 3W switched out for voltage control as directed by AEMO | Request from AEMO | 10/02/13 22:0 | 8 11/02/13 | 9:56 | 11.80 | 3W | | -0.000006685022 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 127455 | TL 3W switched out for voltage control as directed by AEMO | Request from AEMO | 12/02/13 22:2 | 8 13/02/13 | 7:14 | 8.77 | 3W | | -0.000004966556 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 127553 | TL 3W switched out for voltage control as directed by AEMO | Request from AEMO | 14/02/13 18:2 | 4 14/02/13 | 20:51 | 2.45 | 3W | | -0.000001387992 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 127639 | TL 3W switched out for voltage control as directed by AEMO | Request from AEMO | 15/02/13 23:5 | 1 16/02/13 | 2:40 | 2.82 | 3W | | -0.000001595719 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 127640 | TL 3W switched out for voltage control as directed by AEMO | Request from AEMO | 16/02/13 9:1 | 6 16/02/13 | 22:44 | 13.47 | 3W | | -0.000007629234 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 127909 | TL 3W switched out for voltage control as directed by AEMO | Request from AEMO | 20/02/13 21:5 | 6 21/02/13 | 5:46 | 7.83 | 3W | | -0.000004437797 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 127959 | TL 3W switched out for voltage control | Request from AEMO | 21/02/13 21:5 | 8 24/02/13 | 16:11 | 66.22 | 3W | | -0.000037513549 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 128025 | as directed by AEMO TL 3W switched out for voltage control | Request from AEMO | 25/02/13 0:2 | 3 25/02/13 | 6:40 | 6.28 | 3W | | -0.000003559680 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 129469 | as directed by AEMO UG 41 switched out for voltage control | Request from AEMO | 14/03/13 23:2 | 0 15/03/13 | 5:29 | 6.15 | 41 | | -0.000003484143 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 129583 | as directed by AEMO TL 3W switched out for voltage control | Request from AEMO | 17/03/13 7:2 | 8 17/03/13 | 17:09 | 9.68 | 3W | | -0.000005485873 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 129674 | as directed by AEMO TL 3W switched out for voltage control | Request from AEMO | 18/03/13 20:0 | 8 20/03/13 | 15:39 | 43.52 | 3W | | -0.000024653380 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 130000 | as directed by AEMO TL 3W switched out for voltage control | Request from AEMO | 20/03/13 21:1 | 1 21/03/13 | 6:00 | 8.82 | 3W | | -0.000004994882 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 130136 | as directed by AEMO TL 3W switched out for voltage control | Request from AEMO | 21/03/13 20:5 | 3 22/03/13 | 4:11 | 7.30 | 3W | | -0.000004135649 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 130225 | as directed by AEMO TL 3W switched out for voltage control | Request from AEMO | 22/03/13 21:5 | 6 26/03/13 | 4:52 | 78.93 | 3W | | -0.000044717888 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 130290 | as directed by AEMO TL 3W switched out for voltage control | Request from AEMO | 27/03/13 3:5 | 0 27/03/13 | 7:44 | 3.90 | 3W | | -0.000002209456 | Exclusion 1.3 - Outage to control fault levels | |
| | | as directed by AEMO TL 3W switched out for voltage control | | 27/03/13 22:4 | | | 129.57 | 3W | | -0.000073403054 | Exclusion 1.3 - Outage to control rault levels Exclusion 1.3 - Outage to control fault levels | |
| S1 | | as directed by AEMO TL 3W switched out for voltage control | | 2/04/13 19:2 | | | | | | -0.000005466988 | <u> </u> | |
| S1 | | as directed by AEMO TL 3W switched out for voltage control | | 3/04/13 21:1 | | | | | | -0.000004409471 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | | as directed by AEMO TL 3W switched out for voltage control | | 4/04/13 6:0 | | | | | | -0.000004843808 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | | as directed by AEMO TL 3W switched out for voltage control | | 4/04/13 20:1 | | | | | | -0.000006949402 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | .00317 | as directed by AEMO | | 20.1 | 2.0 10 | 3.02 | | | | | Exclusion 1.3 - Outage to control fault levels | |

| S1 | 131186 TL 3W switched out for voltage control | Request from AEMO | 5/04/13 | 20:23 | 9/04/13 | 6:37 | 82.23 | 3W | -0.000046587428 | Exclusion 1.3 - Outage to control fault levels | |
|----------|--|--------------------------------|----------|-------|----------|-------|--------|-----|-----------------|--|--|
| S1 | 131838 TL 3W switched out for voltage control as directed by AEMO | Request from AEMO | 19/04/13 | 22:10 | 23/04/13 | 2:46 | 76.60 | 3W | -0.000043395991 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | 131904 TL 3W switched out for voltage control | Request from AEMO | 23/04/13 | 5:30 | 24/04/13 | 1:15 | 19.75 | 3W | -0.000011188914 | Exclusion 1.3 - Outage to control fault levels | |
| S1 S1 | as directed by AEMO 131970 TL 3W switched out for voltage control | Request from AEMO | 24/04/13 | 4:13 | 25/04/13 | 1:13 | 21.00 | 3W | -0.000011897073 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | as directed by AEMO 131997 TL 3W switched out for voltage control | Request from AEMO | 25/04/13 | 9:09 | 30/04/13 | 16:41 | 127.53 | 3W | -0.000072251115 | Exclusion 1.3 - Outage to control fault levels | |
| S1 | as directed by AEMO 124421 TL M7 isolated for work on direct | Request from Snowy Hydro. | 2/01/13 | 12:28 | 3/01/13 | 12:40 | 24.20 | M7 | -0.000013709961 | Exclusion 1.2 - 3rd party outage | Excluded Outage 124421 2 1-3 1 2013 Restoration times |
| 31 | connected SHL's Murray PS Units 7-8 330kV installation. 124872 U7 Upper Tumut to Tumut 2 power | Generator fault | 3/01/13 | 11:03 | 5/01/13 | 14:17 | 51.23 | 117 | -0.000029025082 | Exclusion 1.2 - ord party oddage | modification for M7 line.msg Excluded outage 124872 U7 on 03-01-13.msg |
| S1 | station 330kV transmission line outage was as a result of a fault on generator | | 3/01/13 | 11.05 | 3/01/13 | 14.17 | 31.23 | | -0.000023023002 | Exclusion 1.2 - 3rd party outage | Excluded datage 1240/2 Of oil 00 01-10.iilog |
| | units 7 & 8 124155 TL U3 isolated for work on direct | Request from Snowy Hydro. | 12/01/13 | 6:03 | 13/01/13 | 13:18 | 31.25 | U3 | -0.000017703978 | | Excluded Outage 124155 18 12 2013 FW Snowy Hydro Outage |
| S1 | connected SHL's Upper Tumut PS Units 3-4 330kV installation. | | | | | | | | | Exclusion 1.2 - 3rd party outage | UTSS U3.msg |
| S1 | 125444 TL M1 isolated for work on direct connected SHL's Murray PS Units 1-2 330kV installation. | Request from Snowy Hydro. | 15/01/13 | 11:37 | 15/01/13 | 13:27 | 1.83 | M1 | -0.000001038633 | Exclusion 1.2 - 3rd party outage | Excluded Outage 125444 FW M1 330kV line TODAY 15 1 2013 late notice urgent work .msg |
| S1 | 125976 TL 939 is owned by TransGrid and Endeavour Energy and is isolated for work on Endeavour's portion of their | Request from Endeavour Energy. | 25/01/13 | 8:03 | 25/01/13 | 17:40 | 9.62 | 939 | -0.000005448104 | Exclusion 1.2 - 3rd party outage | Excluded Outage 125976 - Verbal request OPSLog Entry.msg |
| S1 | 125727 TL M1 isolated for work on direct connected SHL's Murray PS Units 1-2 | Request from Snowy Hydro. | 30/01/13 | 6:31 | 30/01/13 | 16:30 | 9.98 | M1 | -0.000005655831 | Exclusion 1.2 - 3rd party outage | Excluded outage 125727 30 1 2013 FW Snowy Hydro Outage MSS M1.msg |
| S1 | 123799 TL U3 isolated for work on direct connected SHL's Upper Tumut PS Units 3-4 330kV installation. | Request from Snowy Hydro. | 2/02/13 | 6:12 | 3/02/13 | 15:38 | 33.43 | U3 | -0.000018940896 | Exclusion 1.2 - 3rd party outage | Excluded outage 123799 4 2 2013 FW Snowy Hydro Outage UTSS U3.msg |
| S1 | 125472 TL 945 is owned by TransGrid and Essential Energy and is isolated for work on Essential's portion of their | Request from Essential Energy. | 5/02/13 | 5:51 | 5/02/13 | 14:53 | 9.03 | 945 | -0.000005117630 | Exclusion 1.2 - 3rd party outage | Excluded outage 125472 TL 945 5 2 2013.msg |
| S1 | 123815 TL U1 isolated for work on direct connected SHL's Upper Tumut PS Units 1-2 330kV installation. | Request from Snowy Hydro. | 9/02/13 | 6:01 | 15/02/13 | 12:47 | 150.77 | U3 | -0.000085413433 | Exclusion 1.2 - 3rd party outage | Excluded outage 123815 FW U3 (T1 units 3-4) 330kV line 9 2 to 12 2 2013.msg |
| S1 | 126385 TL U3 isolated for work on direct connected SHL's Upper Tumut PS Units 3-4 330kV installation. | Request from Snowy Hydro. | 9/02/13 | 6:01 | 10/02/13 | 15:07 | 33.10 | U1 | -0.000018752054 | Exclusion 1.2 - 3rd party outage | Excluded outage 126385 FW U1 (T1 units 1-2) 330kV line 9 2 to 10 2 2013.msg |
| S1 | 123816 TL U3 isolated for work on direct connected SHL's Upper Tumut PS Units 3-4 330kV installation. | Request from Snowy Hydro. | 15/02/13 | 12:55 | 17/02/13 | 14:46 | 49.85 | U3 | -0.000028241386 | Exclusion 1.2 - 3rd party outage | Excluded Outage 123816 16 2 2013 FW Snowy Hydro Outage UTSS U1 and U3.msg |
| S1 | 126726 TL 94M is owned by TransGrid and Essential Energy. Essential Energy requested isolation from all points of supply to allow protection checks including the closing of fault thrower at Essential Energy's Mudgee | Request from Essential Energy. | 27/02/13 | 13:37 | 27/02/13 | 15:19 | 1.70 | 94M | -0.00000963096 | Exclusion 1.2 - 3rd party outage | Excluded outage 126726 FW 94M - 132 kV Line - From TG Beryl To Mudgee Feb 27 2013 07 30.msg |
| S1 | 128104 TL M9 isolated for work on direct connected SHL's Murray PS Units 9- | Request from Snowy Hydro. | 1/03/13 | 12:01 | 3/03/13 | 13:46 | 49.75 | M9 | -0.000028184733 | Exclusion 1.2 - 3rd party outage | Excluded outage 128104 2 3 2013 FW Snowy Hydro Outage MSS M9.msg |
| S1 | 127394 TL U1 isolated for work on direct connected SHL's Upper Tumut PS Units 1-2 330kV installation. | Request from Snowy Hydro. | 2/03/13 | 5:07 | 3/03/13 | 16:57 | 35.83 | U1 | -0.000020300562 | Exclusion 1.2 - 3rd party outage | Excluded outage 127394 TL U1 2 3 2012 FW Snowyhydro current outage listing.msg |
| S1 | 127504 TL U3 isolated for work on direct connected SHL's Upper Tumut PS Units 3-4 330kV installation. | Request from Snowy Hydro. | 2/03/13 | 5:55 | 3/03/13 | 17:42 | 35.78 | U3 | -0.000020272235 | Exclusion 1.2 - 3rd party outage | Excluded outage 127504 TL U3 2 3 2013 FW Snowyhydro current outage listing.msg |
| S1 | 128504 M9 330kV transmission line tripped, interrupting 80MW of generation. The trip was a result of Snowy Hydro staff working at Murray 1 power station inadvertently cutting the CT secondaries on generator unit 10 causing the differential protection to operate. | | 4/03/13 | 14:19 | 4/03/13 | | | | -0.000001869540 | Exclusion 1.2 - 3rd party outage | Excluded outage 128504 4 3 2013 2013-F-0176.msg |
| S1 | 128553 TL 932 is owned by TransGrid and Endeavour Energy and has been isolated for work on Endeavour's portion of their installation | Request from Endeavour Energy. | 5/03/13 | 5:20 | 7/03/13 | 16:00 | 58.67 | 932 | -0.000033236268 | Exclusion 1.2 - 3rd party outage | Excluded Outage 128553 Fdr 932 Sydney West(210370)correction doc.msg |
| S1 | 129107 96F 132kV transmission line is owned by TransGrid and AusGrid. There was a fault on this line, which was calculated to be approximately 4.4km from Tomago. This is on Ausgrid's portion of the line. | | 11/03/13 | 8:36 | 11/03/13 | 8:38 | 0.03 | 96F | -0.00000018884 | Exclusion 1.2 - 3rd party outage | Excluded Outage 129107 - Ausgrid section of line fault.msg |
| S1 | 129110 TransGrid was requested to isolate and earth TL U7 330kV line at UTSS to allow Snowy Hydro to perform transformer changeover on their installation | Request from Snowy Hydro. | 16/03/13 | 5:05 | 17/03/13 | 13:56 | | | -0.000018610422 | Exclusion 1.2 - 3rd party outage | Excluded outage 129110 U7 FW Snowy Hydro Outages 16-17 3 13.msg |
| S1 | 129108 TransGrid was requested to isolate and earth the TLs U1 & U3 330kV lines at UTSS to allow Snowy Hydro to perform replacement and installation work on their installation. | Request from Snowy Hydro. | 16/03/13 | 6:14 | 17/03/13 | 12:15 | 30.02 | U1 | -0.000017005261 | Exclusion 1.2 - 3rd party outage | Excluded outage 129108 U! FW Snowy Hydro Outages 16-17 3 13.msg |

| | 129109 TransGrid was requested to isolate and earth the TLs U1 & U3 330kV | Request from Snowy Hydro. | 16/03/13 | 6:50 | 17/03/13 | 12:48 | 29.97 U3 | -0.000016976935 | | Excluded outage 129109 TL U3 FW Snowy Hydro Outages 16-17 3 13.msg |
|----|--|--------------------------------|----------|-------|----------|-------|------------|-----------------|----------------------------------|---|
| S1 | lines at UTSS to allow Snowy Hydro to perform replacement and installation work on their installation. | | | | | | | | Exclusion 1.2 - 3rd party outage | |
| S1 | 127528 TL 963 isolation requested by Augrid for clearance for work on 11kV feeder | Request from Ausgrid | 26/03/13 | 5:42 | 26/03/13 | 16:12 | 10.50 963 | -0.000005948537 | Exclusion 1.2 - 3rd party outage | Excluded Outage 127528 ADVICE FOR FEEDER963 26 03 2013.msg |
| S1 | 129160 L M9 isolated for to perform installation and control upgrade work on direct connected SHL's Murray PS | Request from Snowy Hydro. | 28/03/13 | 8:59 | 23/05/13 | 8:52 | 1343.88 M9 | -0.000761346598 | Exclusion 1.2 - 3rd party outage | Excluded Outage 129160 28 03 13 MSS M9 switching Update.msg |
| S1 | Linits 9-10 130562 TransGrid was requested to switch out TL U1 line to allow Snowy Hydro to perform installation work. | Request from Snowy Hydro. | 6/04/13 | 4:59 | 7/04/13 | 14:30 | 33.52 U3 | -0.000018988107 | Exclusion 1.2 - 3rd party outage | Excluded Outage 130562 - 6 4 13 Snowy Hydro Outage UTSS U1 and U3 .msg |
| S1 | 130561 TransGrid was requested to switch out U3 line to allow Snowy Hydro to perform installation work. | Request from Snowy Hydro. | 6/04/13 | 4:59 | 7/04/13 | 13:47 | 32.80 U1 | -0.000018582095 | Exclusion 1.2 - 3rd party outage | Excluded Outage 130561 & 130562 Snowy Hydro Outage UTSS U1 and U3.msg |
| S1 | 130642 TransGrid was requested to switch out M7 330kV line to allow Snowy Hydro to perform preparation for transformer | | 9/04/13 | 7:46 | 9/04/13 | 14:16 | 6.50 M7 | -0.000003682427 | Exclusion 1.2 - 3rd party outage | Excluded Outage 130642 Snowy Hydro Outages 4 4 13.msg |
| S1 | installation work 131229 TransGrid was requested to switch ou M7 330kV line to allow Snowy Hydro to perform installation work on there | Request from Snowy Hydro. | 11/04/13 | 9:45 | 14/04/13 | 15:55 | 78.17 M7 | -0.000044283551 | Exclusion 1.2 - 3rd party outage | Excluded Outage 131229 M7 - Snowy Hydro Outages 5 4 13.msg |
| S1 | installation 130955 TransCrid was requested to switch out U3 line to allow Snowy Hydro to perform work on there installation | Request from Snowy Hydro. | 11/04/13 | 14:15 | 15/04/13 | 15:37 | 97.37 U3 | -0.000055160875 | Exclusion 1.2 - 3rd party outage | Excluded Outage 130955 U3 on 11-04-13 FW Snowy Hydro Outages 4 4 13.msg |
| S1 | (ashestos removal) 130954 TransGrid was requested to switch out U3 line to allow Snowy Hydro to perform work on there installation (ashestos removal) | t Request from Snowy Hydro. | 11/04/13 | 15:14 | 12/04/13 | 8:34 | 17.33 U1 | -0.000009819807 | Exclusion 1.2 - 3rd party outage | Excluded Outage 130954 U1 at 11-04-13 Snowy Hydro Outages 4 4 13.msg |
| S1 | 130957 TransGrid was requested to switch out U1 line to allow Snowy Hydro to perform work on there installation. | Request from Snowy Hydro | 13/04/13 | 7:20 | 14/04/13 | 15:31 | 32.18 U1 | -0.000018232737 | Exclusion 1.2 - 3rd party outage | Excluded Outage 130957 U1 13-04-13 Snowy Hydro Outages 4 4 13.msg |
| S1 | 131606 TransGrid was requested to switch out M7 line to allow Snowy Hydro to perform work on there installation. | Request from Snowy Hydro | 16/04/13 | 6:30 | 16/04/13 | 10:31 | 4.02 M7 | -0.000002275551 | Exclusion 1.2 - 3rd party outage | Excluded Outage 131606 M7 330kV line outage 16 4 13 Late Notice.msg |
| S1 | 130638 TransGrid was requested to isolate 96P 132kV line by Essential Energy so they can perform maintenance work on there installation | Request from Essential Energy. | 17/04/13 | 7:10 | 17/04/13 | 12:58 | 5.80 96P | -0.000003285858 | Exclusion 1.2 - 3rd party outage | Excluded Outage 130638 96P 66kV Line - From TG Taree to Stroud - Apr 17 2013 08 00.msg |
| S1 | 131789 TransGrid was requested to switch out Line 97B to allow Snowy Hydro Limited to work on their instalation at Blowering Power Station. TG line is directly connected to SHL installation and SHL reported a damaged surge | Request from Snowy Hydro | 18/04/13 | 19:26 | 21/04/13 | 10:31 | 63.08 O97 | 0.000035738431 | Exclusion 1.2 - 3rd party outage | Excluded Outage 131789 verbal request - IR#10471 - Snowy Hydro Ltd - Unclassified.msg |
| S1 | 131646 TransGrid was requested to switch out M7 line to allow Snowy Hydro to perform work on there installation. Stated in communication: Clearance purposes for installation of M1 generator units 9-10 red phase refurbished TX (outage 16240) Isolate 07:30, restore 15:00. | | 19/04/13 | 8:13 | 19/04/13 | 14:45 | 6.53 M7 | 0.000003701312 | Exclusion 1.2 - 3rd party outage | Excluded Outage 131646 M7 line outage Fri 19 4.msg |
| S1 | 129364 TrasGrid was requested to isolate and earth line U3 to allow Snowy Hydro to perform work on there instalation. Stated in communication: Remove HV bushing no. 6 and the busbar between the bushing and the surge arrester. Install work platform. | | 20/04/13 | 8:25 | 21/04/13 | 17:12 | 32.78 U3 | -0.000018572653 | Exclusion 1.2 - 3rd party outage | Excluded Outage 129364 U3 line outage 20 & 21 4 .msg |
| S1 | 131451 TrasGrid was requested to isolate and earth O60 to allow SP AusNet to perform work on there instalation. | Request from SP AusNet | 23/04/13 | 8:34 | 23/04/13 | 14:11 | 5.62 O60 | -0.000003181995 | Exclusion 1.2 - 3rd party outage | Excluded Outage 131451 WOTS - Jindera 330kV Line (060) 23 4 13.msg |
| S1 | 131834 Transgrid was requested to isolate and earth the U7 330kV line at UTSS at 10:00 on Sun 28/04 and restore at 15:00 on 2/05 | Request from Snowy Hydro | 28/04/13 | 10:22 | 3/05/13 | 10:29 | 120.12 U7 | -0.000068049371 | Exclusion 1.2 - 3rd party outage | Excluded Outage 131834 U7 line outage - 28 4- date change.msg |
| S1 | 131493 Transgrid was requested to isolate and earth feeder 963. Stated in communication: Feeder required out for clearance for 11kV work below. | Request from Ausgrid | 30/04/13 | 8:13 | 30/04/13 | 14:28 | 6.25 963 | -0.000003540796 | Exclusion 1.2 - 3rd party outage | Excluded Outage 131493 Outage Request Feeder 963 30 04 2013 amendment 1.msg |
| S1 | 131411 Transgrid was requested to isolate and earth TL 23 for black start testing. | Request from Delta Electricity | 30/04/13 | 8:37 | 30/04/13 | 17:40 | 9.05 23 | -0.000005127072 | Exclusion 1.2 - 3rd party outage | Excluded Outage 131411 line 23 on 30-04-13.msg |
| S1 | 132228 TransGrid was requested to isolate and earth U3 at UTSS to enable Snowy Hydro to perform work on their installation | Request from Snowy Hydro | 4/05/13 | 15:50 | 5/05/13 | 17:29 | 25.65 U3 | -0.000014531425 | Exclusion 1.2 - 3rd party outage | Excluded Outage 132228 U3 on 04-05-13 15 50 Snowy Hydro Outages.msg |

| | | 131742 TransGrid was reque and earth TL O96B 1 | | m Snowy Hydro | 6/05/13 | 8:36 | 13/06/13 | 12:24 | 915.80 | O97 | -0.000518825702 | | Excluded Outage 131742 starting 06-05-13 Blowering 132kV switchyard upgrade - 097B line .msg |
|---|-----------------------------------|--|--|---------------|----------|------|----------|-------|--------|-----|-----------------|----------------------------------|--|
| S | 1 | enble Snowy Hydro tr on their installation at Power Station. TG lin connected to SHL ins SHL reported a dama | o perform work Blowering e is directly stallation and | | | | | | | | | Exclusion 1.2 - 3rd party outage | |
| s | 1 | 132037 TransGrid was reque and earth 96X 132kV line, to enble Ausgrid on their installation. | sted to isolate (dual ownership) | m Ausgrid | 8/05/13 | 6:27 | 8/05/13 | 15:26 | 8.98 | 96X | -0.000005089304 | Exclusion 1.2 - 3rd party outage | Excluded Outage 132037 at 08-05-13 Outage Request Feeder 96X.msg |
| s | 1 | 132038 TransGrid was reque and earth 96Y 132kV line, to enble Ausgrid on their installation | (dual ownership) | m Ausgrid | 9/05/13 | 6:30 | 9/05/13 | 17:11 | 10.68 | 96Y | -0.000006052400 | Exclusion 1.2 - 3rd party outage | Excluded outage 132038 - Outage Request Feeder 96Y.msg |
| s | 1 | 132159 Transgrid was reques and earth TL U3 for b | | m Snowy Hydro | 11/05/13 | 8:19 | 11/05/13 | 12:34 | 4.25 | U3 | -0.000002407741 | Exclusion 1.2 - 3rd party outage | Excluded outages 132159 132160 132161 132162 TLs U3 U5 L5 64 starting 11 5 2013 SH 30-4-12.msg |
| S | 1 | 132160 Transgrid was reques | | m Snowy Hydro | 11/05/13 | 8:19 | 11/05/13 | 12:34 | 4.25 | U5 | -0.000002407741 | Exclusion 1.2 - 3rd party outage | Excluded outages 132159 132160 132161 132162 TLs U3 U5 L5 64 starting 11 5 2013 SH 30-4-12.msg |
| s | 1 | 132162 Transgrid was reques and earth TL L5 for b | | m Snowy Hydro | 11/05/13 | 8:22 | 11/05/13 | 13:20 | 4.97 | L5 | -0.000002813752 | Exclusion 1.2 - 3rd party outage | Excluded outages 132159 132160 132161 132162 TLs U3 U5 L5 64 starting 11 5 2013 SH 30-4-12.msg |
| s | 1 | 132161 Transgrid was reques and earth TL 64 for b | | m Snowy Hydro | 11/05/13 | 8:24 | 11/05/13 | 13:22 | 4.97 | 64 | -0.000002813752 | Exclusion 1.2 - 3rd party outage | Excluded outages 132159 132160 132161 132162 TLs U3 U5 L5 64 starting 11 5 2013 SH 30-4-12.msg |
| s | 1 | 137940 TransGrid was reque U3 line to allow Snow perform installation w | | m Snowy Hydro | 14/05/13 | 7:14 | 18/05/13 | 16:12 | 104.97 | U3 | -0.000059466482 | Exclusion 1.2 - 3rd party outage | Excluded outage 137940 14 5 2013 Snowy Hydro Outage UTSS U3 140513 - Amendment 2.msg |
| s | 1 | | sted to switch out Request from low Snowy Hydro | m Snowy Hydro | 18/05/13 | 8:16 | 18/05/13 | 11:53 | 3.62 | 97G | -0.000002048940 | Exclusion 1.2 - 3rd party outage | Excluded outages 138913 & 138960 & 138959 & 138958 & 138925 & 138924 & 138803.msg |
| S | 1 | 138913 TransGrid was reque 97L - 132kV line, to a Hydro to conduct a tri | | m Snowy Hydro | 18/05/13 | 8:16 | 18/05/13 | 11:53 | 3.62 | 97L | -0.000002048940 | Exclusion 1.2 - 3rd party outage | Excluded outages 138913 & 138960 & 138959 & 138958 & 138925 & 138924 & 138803.msg |
| S | 1 | 138925 TransGrid was reque M7 - 330kV line, to al to perform work on th | | m Snowy Hydro | 18/05/13 | 9:36 | 18/05/13 | 12:28 | 2.87 | M7 | -0.000001624045 | Exclusion 1.2 - 3rd party outage | Excluded outages 138913 & 138960 & 138959 & 138958 & 138925 & 138924 & 138803.msg |
| s | Transmission line availability | 138803 TransGrid was reque M13 - 330kV line, to a Hydro to conduct a tri test | • | m Snowy Hydro | 18/05/13 | 9:36 | 18/05/13 | 12:56 | 3.33 | M13 | -0.000001888424 | Exclusion 1.2 - 3rd party outage | Excluded outages 138913 & 138960 & 138959 & 138958 & 138925 & 138924 & 138803.msg |
| S | 1 | 138924 TransGrid was reque M1 - 330kV line, to al to perform work on th | | m Snowy Hydro | 18/05/13 | 9:36 | 18/05/13 | 12:28 | 2.87 | M1 | -0.000001624045 | Exclusion 1.2 - 3rd party outage | Excluded outages 138913 & 138960 & 138959 & 138958 & 138925 & 138924 & 138803.msg |
| s | 1 | 138328 TransGrid was reque U3 - 330kV transmiss Snowy Hydro to cond witnessed Tumut sys | luct a AEMO | m Snowy Hydro | 19/05/13 | 8:12 | 19/05/13 | 11:54 | 3.70 | U3 | -0.000002096151 | Exclusion 1.2 - 3rd party outage | Excluded outages 138330 & 138332 &138329 & 138328 TLs 64 & L5 & U5 & U3 19 5 2013.msg |
| s | 1 | 138332 TransGrid was reque L5 - 330kV transmiss Snowy Hydro to cond witnessed Tumut sys | luct a AEMO | m Snowy Hydro | 19/05/13 | 8:12 | 19/05/13 | 11:30 | 3.30 | L5 | -0.000001869540 | Exclusion 1.2 - 3rd party outage | Excluded outages 138330 & 138332 &138329 & 138328 TLs 64 & L5 & U5 & U3 19 5 2013.msg |
| s | 1 | 138329 TransGrid was reque U5 - 330kV transmiss Snowy Hydro to cond witnessed Tumut sys | luct a AEMO | m Snowy Hydro | 19/05/13 | 8:12 | 19/05/13 | 11:54 | 3.70 | U5 | -0.000002096151 | Exclusion 1.2 - 3rd party outage | Excluded outages 138330 & 138332 &138329 & 138328 TLs 64 & L5 & U5 & U3 19 5 2013.msg |
| s | 1 | 138330 TransGrid was reque 64 - 330kV transmiss Snowy Hydro to cond witnessed Tumut sys | luct a AEMO | m Snowy Hydro | 19/05/13 | 8:16 | 19/05/13 | 11:57 | 3.68 | 64 | -0.000002086709 | Exclusion 1.2 - 3rd party outage | Excluded outages 138330 & 138332 &138329 & 138328 TLs 64 & L5 & U5 & U3 19 5 2013.msg |
| s | 1 | 139708 TransGrid was reque 97L - 330kV line, to a Hydro to conduct a tri | | m Snowy Hydro | 2/06/13 | 8:58 | 2/06/13 | 11:52 | 2.90 | 97L | -0.000001642929 | Exclusion 1.2 - 3rd party outage | Excluded outage 139321 & 139708 ETC FW Snowyhydro listing Murray restart tests 02 06 2013.msg |
| s | 1 | 139773 TransGrid was reque 97G - 330kV line, to a Hydro to conduct a tri | | m Snowy Hydro | 2/06/13 | 8:58 | 2/06/13 | 11:52 | 2.90 | 97G | -0.000001642929 | Exclusion 1.2 - 3rd party outage | Excluded Outages 139708 139773 139322 139719 139720 139774 139776 - Black Start 02 06 2013.msg |
| s | 1 | 139322 TransGrid was reque M13 - 330kV line, to a Hydro to conduct a tri test | | m Snowy Hydro | 2/06/13 | 9:25 | 2/06/13 | 12:13 | 2.80 | | -0.000001586276 | Exclusion 1.2 - 3rd party outage | Excluded Outages 139708 139773 139322 139719 139720 139774 139776 - Black Start 02 06 2013.msg |
| S | 1 | 139719 TransGrid was reque M7 - 330kV line, to al to conduct a trial Mur | | m Snowy Hydro | 2/06/13 | 9:25 | 2/06/13 | 12:13 | 2.80 | M7 | -0.000001586276 | Exclusion 1.2 - 3rd party outage | Excluded Outages 139708 139773 139322 139719 139720 139774 139776 - Black Start 02 06 2013.msg |
| s | 1 | 139720 TransGrid was reque M1 - 330kV line, to al to conduct a trial Mur | | m Snowy Hydro | 2/06/13 | 9:25 | 2/06/13 | 12:13 | 2.80 | M1 | -0.000001586276 | Exclusion 1.2 - 3rd party outage | Excluded Outages 139708 139773 139322 139719 139720 139774 139776 - Black Start 02 06 2013.msg |
| S | 1 | 139779 TransGrid was reque M9 - 330kV line, to al to conduct a trial Mur | low Snowy Hydro | m Snowy Hydro | 4/06/13 | 8:38 | 6/06/13 | 16:06 | 55.47 | M9 | -0.000031423381 | Exclusion 1.2 - 3rd party outage | Excluded Outages 139708 139773 139322 139719 139720 139774 139776 - Black Start 02 06 2013.msg |

| | | | | _ | | | | | | | |
|----|---|---------------------------------|----------|-------|----------|-------|--------|-----|-----------------|----------------------------------|---|
| S1 | 139515 TransGrid was requested to switch out U3 - 330kV line, to allow Snowy Hydro to conduct a trial Murray restart test | | 5/06/13 | 7:01 | 6/06/13 | 15:04 | 32.05 | U3 | -0.000018157200 | Exclusion 1.2 - 3rd party outage | Excluded Outage 139515 FW UT U3 (T1 Units 3-4) 330kV line outage 5 6 13.msg |
| S1 | 140500 TransGrid was requested to isolate and earth U3 at UTSS to enable Snowy Hydro to perform work on their | Request from Snowy Hydro | 14/06/13 | 23:53 | 17/06/13 | 14:35 | 62.70 | U3 | -0.000035521262 | Exclusion 1.2 - 3rd party outage | Excluded Outage 140500 and 140499 - U1 & U3 outages this weekend - changes to restoration time .msg |
| S1 | 140499 TransGrid was requested to isolate and earth U1 at UTSS to enable Snowy Hydro to perform work on their | Request from Snowy Hydro | 15/06/13 | 7:32 | 16/06/13 | 15:00 | 31.47 | U1 | -0.000017826726 | Exclusion 1.2 - 3rd party outage | Excluded Outage 140500 and 140499 - U1 & U3 outages this weekend - changes to restoration time .msg |
| S1 | installation 141782 TransGrid was requested to isolate M9 line at Murray Switchyard, to enable Snowy Hydro to perform fault tests and work on their installation. | Request from Snowy Hydro | 6/07/13 | 7:27 | 6/07/13 | 14:33 | 7.10 | M9 | -0.000004022344 | Exclusion 1.2 - 3rd party outage | Excluded Outage 141782 on 6-July-13 Murray SwYd to M1PS M9 Line.msg |
| S1 | 140975 TransGrid was requested to isolate 76 line to enable Endeavour Energy to re- direct Fdr 132kV 93Y overhead | | 7/07/13 | 7:32 | 7/07/13 | 17:29 | 9.95 | 77 | -0.000005636947 | Exclusion 1.2 - 3rd party outage | Excluded Outage 140975 Line 76 Line 77 (7th July only) & 93Y (4th to 8th July).msg |
| S1 | mains & noles 141007 TransGrid was requested to isolate 77 line to enable Endeavour Energy to re- direct Fdr 132kV 93Y overhead | | 7/07/13 | 7:36 | 7/07/13 | 17:32 | 9.93 | 76 | -0.000005627505 | Exclusion 1.2 - 3rd party outage | Excluded Outage 141007 Line 76 Line 77 (7th July only) & 93Y (4th to 8th July).msg |
| S1 | mains & noles. 142544 TransGrid was requested to isolate and earth M5 (M1 units 5-6) 330kV line, to enable Snowy Hydro to perform work on their installation | Request from Snowy Hydro | 11/07/13 | 10:00 | 11/07/13 | 13:56 | 3.93 | M5 | -0.000002228341 | Exclusion 1.2 - 3rd party outage | Excluded Outage 142544 M5 line outage Thurs 11 7.msg |
| S1 | 142545 TransGrid was requested by Essential Energy to take 132kV line 96P out of service. The request states: "Essential Energy staff require 132kV CT's on 96P to be offline for Oil Sampling - Clearance from TransGrid will be requested to Offload 96P at Stroud. No further requirement from | | 16/07/13 | 8:22 | 16/07/13 | 11:26 | 3.07 | 96P | -0.000001737350 | Exclusion 1.2 - 3rd party outage | Excluded Outage 142545 96P 66kV Line - From TG Taree to Stroud - Jul 16 2013 08 00.msg |
| S1 | 143327 TransGrid was requested to isolate 97L 132kV transmission line to allow Snowy Hydro to perform work on their | Request from Snowy Hydro | 16/07/13 | 11:51 | 19/07/13 | 15:30 | 75.65 | 97L | -0.000042857790 | Exclusion 1.2 - 3rd party outage | Excluded Outage 143327 - 97L on 16-7-13 Snowyhydro outage listing JPS.msg |
| S1 | 143599 TransGrid was requested to isolate and earth M3 (M1 units 3-4) 330kV line, to enable Snowy Hydro to perform work on their installation | Request from Snowy Hydro | 25/07/13 | 9:33 | 25/07/13 | 14:24 | 4.85 | M3 | -0.000002747657 | Exclusion 1.2 - 3rd party outage | Excluded Outage 143599 on 25 7 13 Snowy Outage Plan Changed date for M3 Line.msg |
| S1 | 138449 TransGrid was requested to take 330kV line No.13 out of service to allow Telstra to perform antenna installation work | Request from Telstra | 28/07/13 | 7:33 | 28/07/13 | 17:38 | 10.08 | 13 | -0.000005712484 | Exclusion 1.2 - 3rd party outage | Excluded Outage 138449 - Telstra Antenna Instalation.msg |
| S1 | 143963 TransGrid was requested to take 132kV line 98F out of service to allow Endeavour Energy to perform work on their instalation | | 29/07/13 | 6:27 | 29/07/13 | 7:32 | 1.08 | 98F | -0.000000613738 | Exclusion 1.2 - 3rd party outage | Excluded Outage 143963 FDR 98F Outage Mon 29 7 13 Version 2 Discard Original.msg |
| S1 | 144613 TransGrid was requested to take 132kV feeder No. 250 from Sydney North to Berowra out of service. This was to allow Ausgrid to perform contractor tree trimming work | Request from Ausgrid | 8/08/13 | 17:24 | 9/08/13 | 18:06 | 24.70 | 250 | -0.000013993224 | Exclusion 1.2 - 3rd party outage | Excluded Outage 144613 FW Amended - 250 I&E 9 Aug 2013 doc.msg |
| S1 | 145849 The 132kV transmission line no. 963 from Taree to Tomago substations is patialy owned by TransGrid and partialy by Ausgrid. A fault occurred on Ausgrid's portion of the line | Ausgrid's section of line fault | 17/08/13 | 7:04 | 17/08/13 | 7:04 | 0.00 | 963 | 0.00000000000 | Exclusion 1.2 - 3rd party outage | Excluded Outage 145849 Ausgrid section of line fault.msg |
| S1 | 145643 TransGrid was requested to isolate the 330kV L1 transmission line to allow Snowy Hydro to perform HV testing of transformers | Request from Snowy Hydro | 19/08/13 | 8:14 | 23/08/13 | 12:59 | 100.75 | L1 | -0.000057077626 | Exclusion 1.2 - 3rd party outage | Excluded Outage 145643 on 19-08-13 Snowy Request.msg |
| S1 | 146135 TransGrid was requested to switch out U3 - 330kV line to allow Snowy Hydro to install temperature measuring equipment | | 4/09/13 | 7:07 | 4/09/13 | 18:05 | 10.97 | U3 | -0.000006212916 | Exclusion 1.2 - 3rd party outage | Excluded Outage 146135 on 04-09-13 Snowyhydro outage listing UTSS modified outages.msg |
| S1 | 146139 TransGrid was requested to switch out U5 - 330kV line to allow Snowy Hydro to install temperature measuring equipment | | 5/09/13 | 7:28 | 5/09/13 | 17:56 | 10.47 | U5 | -0.000005929652 | Exclusion 1.2 - 3rd party outage | Excluded Outage 146139 on 05-09-13 Snowyhydro outage listing UTSS modified outages.msg |
| S1 | 147185 TransGrid was requested to switch out U3 - 330kV line to allow Snowy Hydro to Investigate/repair oil leaks on transformer no. 7 | | 14/09/13 | 6:04 | 15/09/13 | | 32.47 | | -0.000018393253 | Exclusion 1.2 - 3rd party outage | Excluded Outage 147185 U3 (T1 Units 3-4) 330kV line 14 9 to 15 9.msg |
| S1 | 147930 TransGrid was requested to switch out 97L 132kV line to allow Snowy Hydro perform work on their instalation. | | 15/09/13 | 6:14 | 16/09/13 | | 21.62 | | -0.000012246432 | Exclusion 1.2 - 3rd party outage | Excluded Outage 147930 97L on 15 and 16 Oct 2013 OPSLog entry.msg |
| S1 | 147328 TransGrid was requested to switch out U3 - 330kV line to allow Snowy Hydro to facilitate M1 U6 isolation for controls upgrade | | 20/09/13 | 8:44 | 22/09/13 | 16:02 | 55.30 | | -0.000031328960 | Exclusion 1.2 - 3rd party outage | Excluded Outage 147328 M5 (M1 units 5-6) 330kV line - 20 9 to 22 9.msg |
| S1 | 148242 Transgrid requested to deenergise 132kV transmission line 97L by Snowy Hydro to allow local operation of ROIs | | 21/09/13 | 6:13 | 22/09/13 | 4:56 | 22.72 | 97L | -0.000012869612 | Exclusion 1.2 - 3rd party outage | Excluded Outage 148242 - 21-09-13 Snowyhydro outage listing 97L.msg |

| S1 | 148225 TransGrid was requested to switch out U1 - 330kV line to allow Snowy Hydro | | 21/09/13 | 7:07 | 21/09/13 | 15:08 | 8.02 | U1 | -0.000004541661 | Exclusion 1.2 - 3rd party outage | Excluded Outage 148225 on 21-09-13 Outage requirements changed OMS 20063.msg |
|----|---|----------------------------------|----------|-------|----------|-------|--------|-----|-----------------|----------------------------------|---|
| S1 | to perform work on their instalation. 147008 TransGrid was requested to switch out U3 - 330kV line to allow Snowy Hydro to remove previously installed | | 21/09/13 | 7:32 | 21/09/13 | 16:05 | 8.55 | U3 | -0.00004843808 | Exclusion 1.2 - 3rd party outage | Excluded Outage 147008 on 21-09-13.msg |
| S1 | temperature test equipment 147188 TransGrid was requested to switch out U5 - 330kV line to allow Snowy Hydro to remove previously installed | | 22/09/13 | 6:50 | 23/09/13 | 15:16 | 32.43 | U5 | -0.000018374369 | Exclusion 1.2 - 3rd party outage | Excluded Outage 147188 on 22-02-13 U5 (T2 Units 5-6) 330kV line.msg |
| S1 | temperature test equipment 148794 TransGrid was requested to switch out L5 - 330kV line to allow Snowy Hydro to perform maintenance work on their | | 8/10/13 | 7:13 | 11/10/13 | 13:44 | 78.52 | L5 | -0.000044481835 | Exclusion 1.2 - 3rd party outage | Excluded Outage 148794 08-10-13 Snowyhydro outage listing LTSS L5 and auto sync mods .msg |
| S1 | installation 147971 TransGrid was requested to switch out M3 - 330kV line to allow Snowy Hydro to perform upgrade work on their | | 14/10/13 | 6:08 | 15/10/13 | 13:56 | 31.80 | M3 | -0.000018015568 | Exclusion 1.2 - 3rd party outage | Excluded Outage 147971 on 14-10-13 Snowyhydro outage listing MSS M3 Auto sync mods.msg |
| S1 | installation 147970 TransGrid was requested to switch out L3 - 330kV line to allow Snowy Hydro to perform maintenance work on their installation | | 14/10/13 | 6:48 | 17/10/13 | 9:52 | 75.07 | L3 | -0.000042527316 | Exclusion 1.2 - 3rd party outage | Excluded Outage 147970 14-10-13 Showyhydro outage listing LTSS L3.msg |
| S1 | 149668 TransGrid was requested to switch out M3 - 330kV line to allow Snowy Hydro to perform commissioning work on their installation | | 15/10/13 | 8:25 | 15/10/13 | 13:56 | | | -0.000003125342 | Exclusion 1.2 - 3rd party outage | Excluded Outage 149668 15-10-13 Snowyhydro outage listing MSS M3 Auto sync mods.msg |
| S1 | 149002 TransGrid was requested to switch out L3 - 330kV line to allow Snowy Hydro to perform commissioning tests on their installation. | | 18/10/13 | 6:27 | 18/10/13 | 9:34 | | | -0.000001765677 | Exclusion 1.2 - 3rd party outage | Excluded Outage 149002 18-10-13 Showyhydro outage listing LTSS L3.msg |
| S1 | 148881 TransGrid was requested to switch out 132kV line 996 (Wagga 330kV to ANM substations) to allow Essential Energy to make its initial parallel of Morven Zone with the 66kV No1 Culcairn feeder ex Wagga Wagga | t Request from Essential Energy | 19/10/13 | 9:04 | 19/10/13 | 10:16 | 1.20 | 996 | -0.000000679833 | Exclusion 1.2 - 3rd party outage | Excluded Outage 148881 Wagga BSP - Outage Date from - Sat Oct 19 2013 10 00.msg |
| S1 | 147973 TransGrid was requested to switch out M11 - 330kV line to allow Snowy Hydro to perform commissioning work of a new M11 line auto sync. | | 22/10/13 | 6:33 | 23/10/13 | 13:06 | 30.55 | M11 | -0.000017307409 | Exclusion 1.2 - 3rd party outage | Excluded Outage 147973 M11 Line Auto Synch Upgrade 22 10 13 (8).msg |
| S1 | 150219 TransGrid was requested to switch out M3 - 330kV line to allow Snowy Hydro to perform work on their installation | | 23/10/13 | 9:25 | 23/10/13 | 13:10 | 3.75 | M3 | -0.000002124477 | Exclusion 1.2 - 3rd party outage | Excluded Outage 150219 M11 Line Auto Synch Upgrade 22 10 13.msg |
| S1 | 147972 TransGrid was requested to switch out M1 - 330kV line to allow Snowy Hydro to perform line auto sync upgrade work on their installation | | 24/10/13 | 6:36 | 25/10/13 | 9:34 | 26.97 | M1 | -0.000015277353 | Exclusion 1.2 - 3rd party outage | Excluded Outages 150396 & 147972 - M1 (M1 units 1-2) 330kV line autosynch upgrade 24 & 25 10 .msg |
| S1 | 150396 TransGrid was requested to switch out M1 - 330kV line to allow Snowy Hydro to perform line auto sync commissioning checks on their installation. | | 25/10/13 | 8:07 | 25/10/13 | 11:11 | 3.07 | M1 | -0.000001737350 | Exclusion 1.2 - 3rd party outage | Excluded Outages 150396 & 147972 - M1 (M1 units 1-2) 330kV line autosynch upgrade 24 & 25 10 .msg |
| S1 | 150164 TransGrid was requested to switch out M11 - 330kV line to allow Snowy Hydro to perform testing on their installation | Request from Snowy Hydro | 28/10/13 | 6:33 | 1/11/13 | 14:41 | 104.13 | M11 | -0.000058994376 | Exclusion 1.2 - 3rd party outage | Excluded Outage 150164 on 28 Oct 13 Snowy Hydro Outages (7).msg |
| S1 | 150688 TransGrid was requested to switch out 97K - 132kV line to allow Essential Energy to perform equipment replacement work on their installation. | t Request from Essential Energy | 2/11/13 | 7:15 | 8/11/13 | 16:20 | 153.08 | 97K | -0.000086725888 | Exclusion 1.2 - 3rd party outage | Excluded Outage 150688 97K - 132kV Line - From TG Cooma to Munyang Snowy Adit - Sat Nov 2 2013 07 00.msg |
| S1 | 150542 TransGrid was requested to switch out 37 - 330kV line to allow Endeavour Energy to re-direct section of over head mains on their installation. | Request from Endeavour Energy | 4/11/13 | 5:33 | 4/11/13 | 8:43 | 3.17 | 37 | -0.000001794003 | Exclusion 1.2 - 3rd party outage | Excluded Outage 150542 TL 37 (Macarthur to Kemps Crk) - Mon 4th Nov 2013.msg |
| S1 | 150180 TransGrid was requested to switch out 932 - 132kV line to allow Endeavour Energy to perform work on their installation | Request from Endeavour Energy | 4/11/13 | 6:09 | 4/11/13 | 15:59 | 9.83 | 932 | -0.000005570852 | Exclusion 1.2 - 3rd party outage | Excluded Outage 150180 932 Sydney West(210370)correction doc.msg |
| S1 | 150689 TransGrid was requested to switch out 97K - 132kV line to allow Essential Energy to perform equipment replacement work on their installation. | Request from Essential Energy | 12/11/13 | 7:32 | 18/11/13 | 15:59 | 152.45 | 97K | -0.000086367087 | Exclusion 1.2 - 3rd party outage | Excluded Outage 150689 97K - 132kV Line - From TG Cooma to Munyang Snowy Adit - Tue Nov 12 2013 07 00.msg |
| S1 | 151541 TransGrid was requested to switch out M3 - 330kV line to allow Snowy Hydro to perform work on their installation. | | 15/11/13 | 11:25 | 16/11/13 | 11:22 | 23.95 | M3 | -0.000013568329 | Exclusion 1.2 - 3rd party outage | Excluded Outage 151541 Snowy outages Murray M3 Line 15 11 13.msg |
| S1 | 152436 TransGrid was requested to switch out M1 - 330kV line to allow Snowy Hydro to perform work on their installation. | | 18/11/13 | 17:03 | 19/11/13 | 19:14 | 26.18 | M1 | -0.000014833573 | Exclusion 1.2 - 3rd party outage | Excluded Outage 152436 Snowyhydro outage listing M11 autosync testing.msg |
| S1 | 151253 TransGrid was requested to switch out 939 - 132kV line to allow Endeavour Energy to perform work on their directly connected installation. | | 19/11/13 | 11:35 | 19/11/13 | 14:15 | 2.67 | 939 | -0.000001510739 | Exclusion 1.2 - 3rd party outage | Excluded Outage 151253 Fdr 939 Syd West to Mamre(230354) doc.msg |

| S1 | 152428 TransGrid was requested to switch or U1 - 330kV line to allow Snowy Hydro to perform work on their installation. | | 20/11/13 6:16 | 20/11/13 14:19 | 8.05 U1 | | -0.000004560545 | Exclusion 1.2 - 3rd party outage | Excluded Outage 152428.msg |
|----|--|-------------------------------------|-------------------|-------------------|-------------|-------------|-----------------|----------------------------------|--|
| S1 | 152083 TransGrid was requested to switch or 96F - 132kV line to allow Essential Energy to perform project work on their installation | ut Request from Essential Energy | 21/11/13 5:15 | 21/11/13 15:28 | 3 10.22 96F | | -0.000005788021 | Exclusion 1.2 - 3rd party outage | Excluded Outage 152083 96F 132kV Line - From Stroud to Tomago tee Brandy Hill - Nov 21 2013 07 00.msg |
| S1 | 152308 TransGrid was requested to switch or U3 - 330kV line to allow Snowy Hydro to perform work on their installation. | | 21/11/13 6:25 | 21/11/13 15:16 | 8.85 U3 | | -0.000005013767 | Exclusion 1.2 - 3rd party outage | Excluded Outage 153238 96F 132kV Line - From Stroud to Tomago tee Brandy Hill - Nov 28 2013 07 00.msg |
| S1 | 151586 TransGrid was requested to switch or U1 - 330kV line to allow Snowy Hydro to perform work on their installation. | | 22/11/13 6:07 | 24/11/13 17:25 | 59.30 U1 | | -0.000033595069 | Exclusion 1.2 - 3rd party outage | Excluded Outage 151586 - 22 11 13 Snowy Outages Upper Tumut U1 Line.msg |
| S1 | 151580 TransGrid was requested to switch or M3 - 330kV line to allow Snowy Hydru to perform work on their installation. | | 22/11/13 6:32 | 22/11/13 14:54 | 8.37 M3 | | -0.000004739945 | Exclusion 1.2 - 3rd party outage | Excluded Outage 151580 Snowy Hydro - M3 (M1 units 3-4) 330kV line - date change from 20 11 to 22 11 .msg |
| S1 | 151577 TransGrid was requested to switch or 96F - 132kV line to allow Essential Energy to perform project work on | ut Request from Essential Energy | 25/11/13 7:07 | 25/11/13 11:13 | 3 4.10 964 | | -0.000002322762 | Exclusion 1.2 - 3rd party outage | Excluded Outage 151577 964 -132kV Line - From TG Taree to TG Port Macquarie tee Herons Creek - Nov 25 2013.msg |
| S1 | their installation 147967 TransGrid was requested to switch or L1 - 330kV line to allow Snowy Hydro to perform work on their installation. | | 26/11/13 6:56 | 28/11/13 17:17 | 7 58.35 L1 | | -0.000033056868 | Exclusion 1.2 - 3rd party outage | Excluded outage 147967 L1 (T3 units 1-2) 330kV line autosynch upgrade - 26 11 to 28 11.msg |
| S1 | 152125 TransGrid was requested to switch or 96F - 132kV line to allow Essential Energy to perform project work on | ut Request from Essential Energy | 27/11/13 6:34 | 27/11/13 15:19 | 8.75 96F | | -0.000004957114 | Exclusion 1.2 - 3rd party outage | Excluded Outage 152125 96F 132kV Line - From Stroud to Tomago tee Brandy Hill - Nov 27 2013 07 00.msg |
| S1 | their installation 153238 TransGrid was requested to switch or 96F - 132kV line to allow Essential Energy to perform project work on | ut Request from Essential Energy | 28/11/13 5:53 | 28/11/13 17:06 | 11.22 96F | | -0.000006354548 | Exclusion 1.2 - 3rd party outage | Excluded Outage 153238 96F 132kV Line - From Stroud to Tomago tee Brandy Hill - Nov 28 2013.msg |
| S1 | their installation 153271 TransGrid was requested to switch or 96F - 132kV line to allow Essential Energy to perform project work on | ut Request from Endeavour Energy | 29/11/13 6:36 | 29/11/13 17:12 | 2 10.60 96P | | -0.000006005189 | Exclusion 1.2 - 3rd party outage | Excluded Outage 153271 96P 66kV Line - From - Fri Nov 29 2013 12 00.msg |
| S1 | their installation. 148167 TransGrid was requested to switch or 96F - 132kV line to allow Essential Energy to perform project work. | ut Request from Ausgrid | 29/11/13 6:36 | 29/11/13 17:31 | 10.92 96F | | -0.000006184590 | Exclusion 1.2 - 3rd party outage | Excluded Outage 148167 96F 132kV Line - Outage Date from - Fri Nov 29 2013 06 30.msg |
| S1 | 153006 TransGrid was requested to switch or 39 - 330kV line for clearance purposes to allow Endeavour Energy to perform work on their installation. | Energy | 29/11/13 7:33 | 29/11/13 8:38 | 1.08 39 | | -0.000000613738 | Exclusion 1.2 - 3rd party outage | Excluded Outage 153006 330kV TL 39 (Clearance Outage for 29 11 13).msg |
| S1 | 151802 TransGrid was requested to switch or U3 - 330kV line to allow Snowy Hydro to perform work on their installation. | | 29/11/13 13:33 | 1/12/13 17:32 | 2 51.98 U3 | | -0.000029449978 | Exclusion 1.2 - 3rd party outage | Excluded Outage 151802 - Upper Tumut U3 TL on 29 11 2013 by Snowy Hydro.msg |
| S1 | 153182 TransGrid was requested to take 132kV feeder No. 250 from Sydney North to Berowra out of service. This was to allow Ausgrid to perform | Request from Ausgrid | 4/12/13 17:24:00 | 5/12/13 15:49:00 | 22.42 250 | | -0.000012699654 | Exclusion 1.2 - 3rd party outage | Excluded Outage 153182 250 I&E 5 Dec 2013 doc (5).msg |
| S1 | 153334 TransGrid was requested to switch or 27 - 330kV TL for clearance purposes to allow Ausgrid to perform work on their installation. | ut Request from Ausgrid | 4/12/13 19:18:00 | 5/12/13 16:18:00 | 21.00 27 | | -0.000011897073 | Exclusion 1.2 - 3rd party outage | Excluded Outage 153334 330kV FDR 27 l&E 5 Dec 2013 doc (3).msg |
| S1 | 148998 TransGrid was requested to switch or 96P - 132kV line to allow Essential Energy to perform project work. | ut Request from Essential Energy | 6/12/13 05:57:00 | 6/12/13 17:28:00 | 11.52 96P | | -0.000006524506 | Exclusion 1.2 - 3rd party outage | Excluded Outage 148998 - 96P 66kV TL TG Taree to Stroud on 06 12 2013 by Essential Energy.msg |
| S1 | 153541 TransGrid was requested to switch or 96F - 132kV line to allow Essential Energy to perform project work. | ut Request from Essential Energy | 6/12/13 05:57:00 | 6/12/13 17:28:00 |) 11.52 96F | | -0.000006524506 | Exclusion 1.2 - 3rd party outage | Excluded Outage 153541 96P 66kV Line - From TG Taree to Stroud - Fri Dec 6 2013.msg |
| S1 | 153335 TransGrid was requested to take 132kV feeder No. 250 from Sydney North to Berowra out of service. This was to allow Ausgrid to perform | Request from Ausgrid | 8/12/13 16:33:00 | 9/12/13 16:20:00 | 23.78 250 | | -0.000013473908 | Exclusion 1.2 - 3rd party outage | Excluded Outage 153335 250 I&E 9 Dec 2013 doc.msg |
| S1 | renairs 154533 TransGrid was requested to switch or L3 - 330kV line to allow Snowy Hydro to perform work on their installation. | | 11/12/13 09:01:00 | 13/12/13 09:35:00 | 48.57 L3 | | -0.000027514343 | Exclusion 1.2 - 3rd party outage | Excluded Outage 154533 L3 on 11-12-13.msg |
| S2 | 128568 TransGrid was requested to isolate No.1 330/132/11kV main transformer at Wallerawang 330kV by Delta Electricity. Description of work stated as: Protection testing of station | | 16/04/13 07:55:00 | 16/04/13 17:55:00 | 10.00 | No.1 Tx WW1 | -0.000006275140 | Exclusion 1.2 - 3rd party outage | Excluded Outage 128568.msg |
| S2 | 131629 TransGrid was requested to isolate transformer No.2 at Wagga 132kV substation by Essential Energy for work on their installation at Forest Hill | Request from Essential Energy | 16/04/13 09:43:00 | 16/04/13 14:02:00 | 4.32 | No.2 Tx WG2 | -0.000002708769 | Exclusion 1.2 - 3rd party outage | Excluded Outage 131629 - see 3 attached emails.msg |
| S2 | Trans Substation 138958 TransGrid was requested to switch or No.1 330/132/11kV Transformer at Murray Substation, to allow Snowy Hydro to conduct a trial Murray power | | 18/05/13 09:36:00 | 18/05/13 12:28:00 | 2.87 | No.1 Tx MUR | -0.000001798873 | Exclusion 1.2 - 3rd party outage | Excluded outages 138913 & 138960 & 138959 & 138958 & 138925 & 138924 & 138803.msg |

| S2 | 138959 TransGrid was requested to switch out No.2 330/132/11kV Transformer at Murray Substation, to allow Snowy Hydro to conduct a trial Murray power station restart test | Request from Snowy Hydro | 18/05/13 | 09:36:00 1 | 8/05/13 12:28: | 2.87 | No | .2 Tx MUR | -0.000001798873 | Exclusion 1.2 - 3rd party outage | Excluded outages 138913 & 138960 & 138959 & 138958 & 138925 & 138924 & 138803.msg |
|---|--|--|----------|------------|-----------------|--------|----|-----------|-----------------|----------------------------------|---|
| S2 | 139774 TransGrid was requested to switch out No.1 330/132/11kV Transformer at Murray Substation, to allow Snowy Hydro to conduct a trial Murray power | Request from Snowy Hydro | 2/06/13 | 09:25:00 | 2/06/13 12:13: | 2.80 | No | .1 Tx MUR | -0.000001757039 | Exclusion 1.2 - 3rd party outage | Excluded Outages 139708 139773 139322 139719 139720 139774 139776 - Black Start 02 06 2013.msg |
| Transformer availability | 139776 TransGrid was requested to switch out No.2 330/132/11kV Transformer at Murray Substation, to allow Snowy Hydro to conduct a trial Murray power station restart test | Request from Snowy Hydro | 2/06/13 | 09:25:00 | 2/06/13 12:13: | 2.80 | No | .2 Tx MUR | -0.000001757039 | Exclusion 1.2 - 3rd party outage | Excluded Outages 139708 139773 139322 139719 139720 139774 139776 - Black Start 02 06 2013.msg |
| S2 | | Request from Delta Electricity | 24/06/13 | 06:51:00 2 | 28/06/13 12:26: | 101.58 | No | .1 Tx WW1 | -0.000063744960 | Exclusion 1.2 - 3rd party outage | Excluded Outage 140014 on 24 06 2013 Wallerawang 330kV No 1 Tx Delta request.msg |
| S2 | | Fault on Delta Electricity station transformer | 8/07/13 | 07:31:00 | 8/07/13 15:59: | 8.47 | No | .1 Tx VP1 | -0.000005312952 | Exclusion 1.2 - 3rd party outage | Excluded Outage 142829 Follow-up 2013-F-0267-713 1 VP 330kV No 1 Tx 330 132 11kV 08 07 2013.msg |
| S2 | | Fault on Delta Electricity station transformer | 5/11/13 | 17:16:00 | 5/11/13 21:12: | 3.93 | No | .2 Tx VP1 | -0.000002468222 | Exclusion 1.2 - 3rd party outage | Excluded Outage 151150 IR#11249 - 5 11 13 VP1 - Forced Outage .msg |
| S3 S3 Reactive plant availability 33 S3 S3 S3 | | | | | | 0.00 | | | 0.000000000000 | | |
| S3 | | | | | | 0.00 | | | 0.000000000000 | | |
| Reactive plant | | | | | | 0.00 | | | 0.000000000000 | | |
| availability | | | | | | 0.00 | | | 0.000000000000 | | |
| S3 | | | | | | 0.00 | | | 0.0000000000000 | | |
| | | | | | | 0.00 | | | 0.000000000000 | | |

TransGrid - Proposed exclusions

| LOSS OF SUPF FREQUE | | 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 ime Circ | cuits affected | Maximum system demand | Demand shed and time | Quantitative impact | Reasons for exclusion request | Further references |
|---------------------------------|------------------------------------|------------------------------|--|--|-------------------------|------------|------------------|-----------------|----------------|--|--|--|--|--|
| Name of any loss parameters | of supply | | 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 of event | | End date and tin | plant a | affected | The max system demand that occurred up until the time of the event | The (MW) demand shed and the duration it was shed for. | Impact of exclusion event on LOS Parameter | Full details of the reason/s for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see Exclusion definition tab). Eg. Exclusion 1.2 Third party event | A TNSP may provide further details of an exclusion event. TNSP to provide reference. |
| | upply event cy >0.05 minutes | | | Extraordinary and unmanageable storm event | 13/01/2013 | 17:34 | 13/01/2013 1 | 9:18 96M | | 13946 | 3 18MW for 2 hours and 44 minutes | | 1 Force Majeure | Narrabri ENS 13_01_2013 Force Majeuer Exclusion Files\ |
| \$4 \$4 \$4 \$4 \$4 | _ | | | | | | | | | | | | | |
| S4 S4 | _ | | | | | | | | | | | | | |
| S4 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| S5 S5 | | | | | | | | | | | | | | |
| S5 Loss of su | ipply event | | | | | | | | | | | | | |
| | cy >0.25 | | | | | | | | | | | | | |
| S5 system | minutes | | | | | | | | | | | | | |
| S5 | | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | |

TransGrid - Proposed exclusions

| A | VERAGE OUTAGE DURATION | Event proposed for exclusion | Description of the event and its impact on the network and performance | Cause of the event | Start date | Start time | End date | End time | Circuits affected | Quantitative impact | Capped impact (if applicable) | Reasons for exclusion request | Further references |
|----|--|------------------------------|---|--|---------------|---------------|-------------|-------------|------------------------------------|--|---|--|--|
| | e of any average outage iion parameters | Name of the event | Detail of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted. | A description of the cause of the event | Start date a | and time of | End date an | nd time of | Name of circuits or plant affected | Impact of exclusion event on AOD Parameter | Impact of capped exclusion event on AOD parameter | Full details of the reason for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see Exclusion definition tab). Eg. Exclusion 1.2 Third party event | A TNSP may provide further details of an exclusion event. TNSP to provide reference. |
| S6 | | | transformer at Vales Point 330kV substation is tied to the Delta Electricity No.3 station transfromer. There was Buchholz trip on the No.3 station transformer owned by Delta Electricity due to low oil levels, resulting in a trip of Transgrid's No.1 transformer. | Fault on Delta Electricity station transformer | 8/07/13 | 07:31:00 | 8/07/13 | 15:59:00 | No.1 Tx VP1 | 508.000 | | | Excluded Outage 142829 Follow-up 2013-F-0267-713 1 VP 330kV No 1 Tx 330 132 11kV 08 07 2013.msg |
| S6 | | | | Fault on Delta Electricity station transformer | 5/11/13 | 17:16:00 | 5/11/13 | 21:12:00 | No.2 Tx VP1 | 236.000 | | | Excluded Outage 151150 IR#11249 - 5 11 13 VP1 - Forced Outage .msg |
| S6 | Average outage duration | 124872 | | Generator fault | 3/01/13 | 11:03:00 | 5/01/13 | 14:17:00 | U7 | 3074.000 | | | Excluded outage 124872 U7 on 03-01-13.msg |
| S6 | | | M9 330kV transmission line tripped, interrupting 80MW of generation. The trip was a result of Snowy Hydro staff working at Murray 1 power station inadvertently cutting the CT secondaries on generator unit 10 causing the differential protection to operate. | Snowy Hydro staff error | 4/03/13 | 14:19:00 | 4/03/13 | 17:37:00 | M9 | 198.000 | | | Excluded outage 128504 4 3 2013 2013-F-0176.msg |
| S6 | | | 96F 132kV transmission line is owned by TransGrid and AusGrid. There was a fault on this line, which was calculated to be approximately 4.4km from Tomago. This is on Ausgrid's portion of the line. | Ausgrid line fault | 11/03/13 | 08:36:00 | 11/03/13 | 08:38:00 | 96F | 2.000 | | | Excluded Outage 129107 - Ausgrid section of line fault.msg |

TransGrid - S1 - Transmission line availability

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

| Performance Formulae | | | Fori | mulae | | | | | Conditions | | | S- Calc 1 | S- Calc 2 |
|----------------------|---|-----------|------|--------------|---|-----------|--------|---|--------------|---|--------|-----------|-----------|
| Performance | = | -0.002000 | | | | | | | Availability | < | 99.05% | -0.002000 | -0.002000 |
| | = | 0.952381 | х | Availability | + | -0.945333 | 99.05% | ≤ | Availability | ≤ | 99.26% | -0.006541 | -0.002957 |
| | = | 2.000000 | Х | Availability | + | -1.985200 | 99.26% | ≤ | Availability | ≤ | 99.36% | -0.013736 | -0.006210 |
| | = | 0.002000 | | | | | 99.36% | < | Availability | | | 0.002000 | 0.002000 |

| Performance Outcomes | Performance (Without Exclusions) | Performance (Exclusions) |
|----------------------------------|--|-----------------------------|
| Transmission line availability = | 98.573202% | 98.949516% |
| S-Factor = | -0.200000% | -0.200000% |

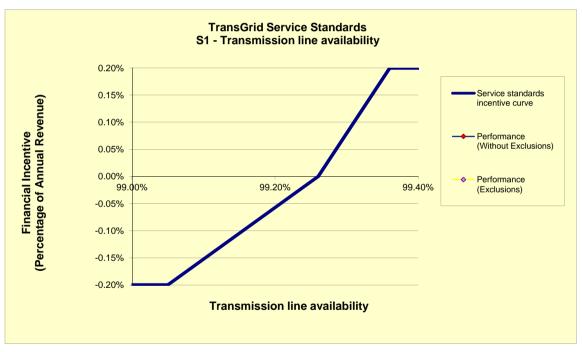
NOTE:

This sheet will automatically update based on data in input sheets

Blue cells show the TNSP's performance targets and weightings

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

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



TransGrid - S2 - Transformer availability

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

| Performance Formulae | | | For | mulae | | | | Conditions | | | S- Calc 1 | S- Calc 2 |
|----------------------|---|-----------|-----|--------------|---|------------------------|-------|--------------|---|--------|-----------|-----------|
| Performance | = | -0.001500 | | | | Wh | nen: | Availability | < | 97.33% | -0.001500 | -0.001500 |
| | = | 0.117188 | х | Availability | + | -0. 115559 97.3 | 33% ≤ | Availability | ≤ | 98.61% | -0.001310 | -0.001300 |
| | = | 0.535714 | х | Availability | + | -0.528268 98.6 | 61% ≤ | Availability | ≤ | 98.89% | -0.005990 | -0.005943 |
| | = | 0.001500 | | | | 98.8 | 89% < | Availability | | | 0.001500 | 0.001500 |

| Performance Outcomes | Performance (Without Exclusions) | Performance (Exclusions) |
|----------------------------|--|-----------------------------|
| Transformer availability = | 97.491813% | 97.500575% |
| S-Factor = | -0.131038% | -0.130011% |

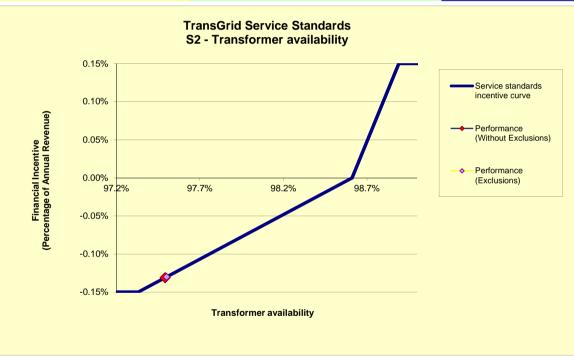
NOTE:

This sheet will automatically update based on data in input sheets

Blue cells show the TNSP's performance targets and weightings

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

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



TransGrid - S3 - Reactive plant availability

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

| Performance Formulae | | | Forn | nulae | | | | | Conditions | | | S- Calc 1 | S- Calc 2 |
|----------------------|---|-----------|------|--------------|---|-----------|--------|---|--------------|---|--------|-----------|-----------|
| Performance | = | -0.001000 | | | | | When: | | Availability | < | 98.65% | -0.001000 | -0.001000 |
| | = | 0.212766 | х | Availability | + | -0.210894 | 98.65% | ≤ | Availability | ≤ | 99.12% | -0.001775 | -0.001775 |
| | = | 0.476190 | х | Availability | + | -0.472000 | 99.12% | ≤ | Availability | ≤ | 99.33% | -0.003973 | -0.003973 |
| | = | 0.001000 | | | | | 99.33% | < | Availability | | | 0.001000 | 0.001000 |

| Performance Outcomes | | Performance (Without Exclusions) | Performance (Exclusions) |
|-----------------------------|---|--|-----------------------------|
| Reactive plant availability | = | 98.285587% | 98.285587% |
| S-Factor | = | -0.100000% | -0.100000% |

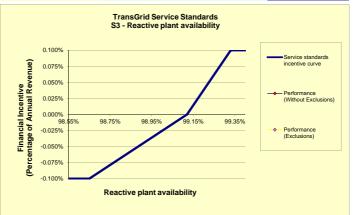
NOTE:

This sheet will automatically update based on data in input sheets

Blue cells show the TNSPt's performance targets and weightings

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

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



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

| Performance Targets | Graph start | Collar | Target | Cap | Graph end |
|---|-------------|---------|--------|--------|-----------|
| Loss of supply event frequency >0.05 system minutes | | 7 | 4 | 2 | _ |
| Weighting | | -0.250% | 0.00% | 0.250% | 0.25% |

| Performance Formulae | | Formulae | | | | Conditions | S- Calc 1 | S- Calc 2 | |
|----------------------|---|-----------|---|---------------|---|------------|---------------------|-------------|-----------|
| Performance | = | -0.002500 | | | | | 7 < No. of events | -0.002500 | -0.002500 |
| | = | -0.000833 | х | No. of events | + | 0.003333 | 4 ≤ No. of events ≤ | 7 -0.000833 | -0.000833 |
| | = | -0.001250 | х | No. of events | + | 0.005000 | 2 ≤ No. of events ≤ | 4 -0.001250 | -0.001250 |
| | = | 0.002500 | | | | | No. of events < | 2 0.002500 | 0.002500 |

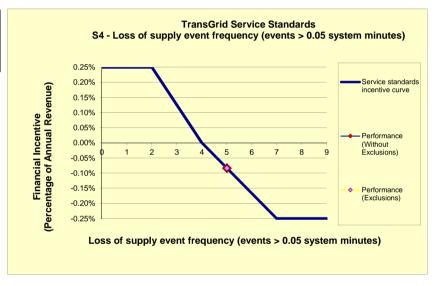
| Loss of supply event frequency >0.05 system minutes = | Performance (Without Exclusions) | Performance (Exclusions) |
|---|--|-----------------------------|
| Loss of supply event frequency >0.05 system minutes = | 5 | 5 |
| S-Factor | -0.083333% | -0.083333% |

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

Blue cells show the TNSP's performance targets and weightings

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

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



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

| Performance Targets | Graph start | Collar | Target | Cap | Graph end |
|---|-------------|---------|--------|--------|-----------|
| Loss of supply event frequency >0.25 system minutes | | 2 | 1 | C | 0 |
| Weighting | | -0.100% | 0.00% | 0.100% | 0.10% |

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

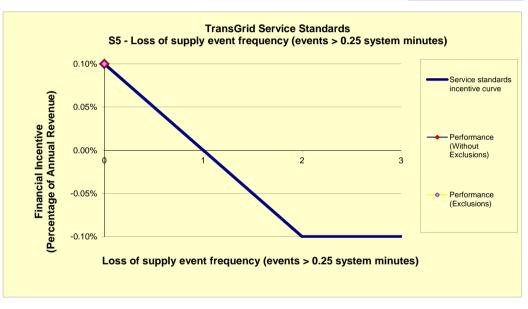
| Loss of supply event frequency >0.25 system minutes | = | Performance (Without Exclusions) | Performance (Exclusions) |
|---|---|--|-----------------------------|
| Loss of supply event frequency >0.25 system minutes | = | 0 | 0 |
| S-Factor | | 0.100000% | 0.100000% |

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

Blue cells show the TNSP's performance targets and weightings

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

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



TransGrid - S6 - Average outage duration

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

| Performance Formulae | | | Fo | rmulae | | | | | Conditions | | | S- Calc 1 | S- Calc 2 |
|----------------------|---|-----------|----|----------|---|----------|-----|---|------------|---|-----|-----------|-----------|
| Performance | = | -0.002000 | | | | | 999 | < | Duration | | | -0.002000 | -0.002000 |
| | = | -0.000011 | Х | Duration | + | 0.009417 | 824 | ≤ | Duration | ≤ | 999 | -0.007348 | -0.007666 |
| | = | -0.000011 | Х | Duration | + | 0.009417 | 649 | ≤ | Duration | ≤ | 824 | -0.007348 | -0.007666 |
| | = | 0.002000 | | | | | | | Duration | < | 649 | 0.002000 | 0.002000 |

| Average outage duration | = | Performance (Without Exclusions) | Performance (Exclusions) |
|-------------------------|---|--|-----------------------------|
| Average outage duration | = | 1466.935484 | 1494.806723 |
| S-Factor | | -0.200000% | -0.200000% |

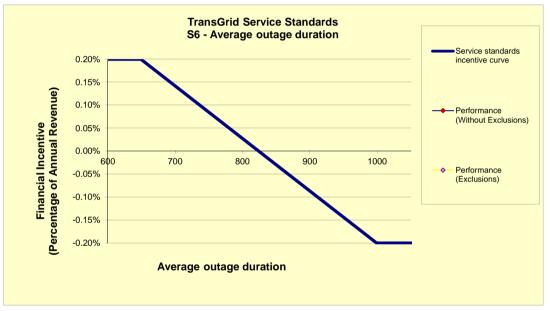
NOTE:

This sheet will automatically update based on data in input sheets

Blue cells show the TNSP's performance targets and weightings

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

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



TransGrid - Revenue Calculation

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

| Annual revenue adjusted for CPI | Mar-09 | Mar-10 | Mar-11 | Mar-12 | Mar-13 | Mar-14 |
|---------------------------------|--------|--------|--------|--------|--------|--------|
| СРІ | 166.2 | 171.0 | 176.7 | 179.5 | 1 | 1 |
| СРІ | 92.5 | 95.2 | 98.3 | 99.9 | 102.4 | - |

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

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

NOTE:

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

Grey cells show calendar year revenue

Green cells are for formula

TransGrid - Performance outcomes

Revenue calendar year

\$898,660,076

| s | Parformance parameter | Torget | Performance without exclusions | | | Performance with exclusions | | | Impact of |
|----|---|--------|--------------------------------|------------|-----------------|-----------------------------|------------|-----------------|------------|
| 3 | Performance parameter | Target | Performance | S-Factor | Final Incentive | Performance | S-Factor | Final Incentive | exclusions |
| S1 | Transmission line availability | 99.26% | 98.573202% | -0.200000% | -\$1,797,320 | 98.949516% | -0.200000% | -\$1,797,320 | 0.000000% |
| S2 | Transformer availability | 98.61% | 97.491813% | -0.131038% | -\$1,177,582 | 97.500575% | -0.130011% | -\$1,168,354 | 0.001027% |
| | Reactive plant availability | 99.12% | 98.285587% | -0.100000% | -\$898,660 | 98.285587% | -0.100000% | -\$898,660 | 0.000000% |
| S4 | Loss of supply event frequency >0.05 system minutes | 4 | 5 | -0.083333% | -\$748,883 | 5 | -0.083333% | -\$748,883 | 0.000000% |
| S5 | Loss of supply event frequency >0.25 system minutes | 1 | 0 | 0.100000% | \$898,660 | 0 | 0.100000% | \$898,660 | 0.000000% |
| S6 | Average outage duration | 824 | 1467 | -0.200000% | -\$1,797,320 | 1495 | -0.200000% | -\$1,797,320 | 0.000000% |
| | | | | | | | | | |
| - | TOTALS | | | -0.614371% | -\$5,521,106 | | -0.613344% | -\$5,511,878 | 0.001027% |
| | | | | | | | | | |

NOTE:

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

Grey cell shows relevant calendar year revenue

Green cells show performance measure targets

Pink cells show performance, s-factor results and financial incentive without exclusions

Orange cells show performance, s-factor results and financial incentive with exclusions

| Aggregate outcome | |
|--|--------------|
| S-factor | -0.613344% |
| Financial Incentive | -\$5,511,878 |
| Financial year affected by financial incentive | 2014/15 |

| D D SE | Parameter 1- Transmission Line Availability Defined exclusions Dutages on assets that are not providing prescribed transmission ervices. | | |
|---|---|--|--|
| 1.1 O SE | Outages on assets that are not providing prescribed transmission | | Reference |
| 1.2 31 1.3 O 1.4 Fo 1.5 Ti 1.6 Ti 1.7 U | onicos | Further description of exclusion | Service Target Performance Incentive Scheme |
| 1.3 O 1.4 Fe 1.5 Ti 1.6 Ti 1.7 U | | | (March 2008) p. 32 |
| 1.4 Fo 1.5 Ti 1.6 Ti 1.7 U | ard party outage | Any outages shown to be caused by a fault or other event on a 'third party system' e.g. intertrip signal, generator outage, customer installation (TNSP to provide list). | Service Target Performance Incentive Scheme (March 2008) p. 32 |
| 1.5 Ti 1.6 Ti 1.7 U | Outages to control fault levels | Outages to control voltages within required limits, both as directed by AEMO and where AEMO does not have direct oversight | Service Target Performance Incentive Scheme |
| 1.5 Ti 1.6 Ti 1.7 U | Force majeure events | of the network (in both cases only where the element is available for immediate energisation if required) As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme | (March 2008) p. 32 |
| 1.6 TI 1.7 U | orce majeure events | (March 2008) p. 51 | Service Target Performance Incentive Scheme (March 2008) p. 32 |
| 1.7 U | ransient interruptions less than one (1) minute | | Service Target Performance Incentive Scheme |
| 1.7 U | The opening of one end of a transmission circuit | The opening of only one end of a transmission circuit (eg where the transmission circuit remains energised and available to | (March 2008) p. 32 Service Target Performance Incentive Scheme |
| P | ne opening of one end of a transmission circuit | carry power with immediate manual or automatic return to service) | (March 2008) p. 33 |
| D | Inderground cable damaged by an external party | Outages for remedial repairs to an underground power cable damaged by an external party are capped at 14 days if: - the external party did not enquire with 'dial before you dig' or | Service Target Performance Incentive Scheme |
| D | | - the external party enquired, received accurate information and did not follow this information. | (March 2008) p. 33 |
| | Parameter 2- Transformer Availability Defined exclusions | Further description of exclusion | Reference |
| | Outages on assets that are not providing prescribed transmission | | Service Target Performance Incentive Scheme |
| | ervices. ord party outage | Any outages shown to be caused by a fault or other event on a 'third party system' e.g. intertrip signal, generator outage, | (March 2008) p. 32 |
| 2.2 31 | lu party outage | customer installation (TNSP to provide list). | Service Target Performance Incentive Scheme (March 2008) p. 32 |
| 2.3 0 | | Outages to control voltages within required limits, both as directed by AEMO and where AEMO does not have direct oversight of the network (in both cases only where the element is available for immediate energisation if required) | Service Target Performance Incentive Scheme |
| 2.4 F | orce majeure events | As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme | (March 2008) p. 32 Service Target Performance Incentive Scheme |
| | • | (March 2008) p. 51 | (March 2008) p. 32 |
| 2.5 Tı | ransient interruptions less than one (1) minute | | Service Target Performance Incentive Scheme (March 2008) p. 32 |
| 2.6 A | Auxiliary transformers | | (March 2008) p. 32 |
| 2.7 S | Static VAR compensator transformers (which are counted as part of the SVC) | | Service Target Performance Incentive Scheme |
| | * | The opening of only one or both sides of a transformer for operational purposes, such as to control losses, fault levels, | (March 2008) p. 33 Service Target Performance Incentive Scheme |
| | | incompatibility of tap changes etc but where the transformer remains available to carry power on immediate manual or | (March 2008) p. 33 |
| | The period where a transformer is made available for service, but | automatic return to service | Service Target Performance Incentive Scheme |
| | not switched in, at the end of each day of a multi-day planned butage | | (March 2008) p. 33 |
| P | Parameter 3- Reactive Plant Availability | | |
| | Defined exclusions Dutages on assets that are not providing prescribed transmission | Further description of exclusion | Reference Service Target Performance Incentive Scheme |
| | portages on assets that are not providing prescribed transmission services. | | (March 2008) p. 32 |
| 3.2 3r | ard party outage | Any outages shown to be caused by a fault or other event on a 'third party system' e.g. intertrip signal, generator outage, customer installation (TNSP to provide list). | Service Target Performance Incentive Scheme |
| 3.3 O | Outages to control fault levels | Outages to control voltages within required limits, both as directed by AEMO and where AEMO does not have direct oversight | (March 2008) p. 32 Service Target Performance Incentive Scheme |
| 0.0 | | of the network (in both cases only where the element is available for immediate energisation if required) | (March 2008) p. 32 |
| 3.4 F | orce majeure events | As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme (March 2008) p. 51 | Service Target Performance Incentive Scheme |
| 3.5 Tı | ransient interruptions less than one (1) minute | (maiori 2000) p. 01 | (March 2008) p. 32 Service Target Performance Incentive Scheme |
| | | | (March 2008) p. 32 |
| 3.6 C | Capacitor banks and reactors operating less than 66kV | | Service Target Performance Incentive Scheme (March 2008) p. 33 |
| | eactive plant switched out by System Operations, or left out after | | Service Target Performance Incentive Scheme |
| re | epairs that make it available for service for operational purposes | | (March 2008) p. 33 |
| В | December 4 Lang of comply agent fraggionary 0.05 agetom | | |
| m | Parameter 4- Loss of supply event frequency > 0.05 system ninutes (No.) | | |
| | Defined exclusions Dutages on assets that are not providing prescribed transmission | Further description of exclusion | Reference Service Target Performance Incentive Scheme |
| se | ervices (e.g. some connection assets) | | (March 2008) p. 34 |
| 4.2 S | Successful reclose events (less than one minute duration) | | Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.3 A | Any outages shown to be caused by a fault or other event on a 'third | | |
| | earty system'-e.g. intertrip signal, generator outage, customer estallation | | Service Target Performance Incentive Scheme |
| | Planned outages | | (March 2008) p. 34 |
| 4.4 P | | | (March 2008) p. 34 Service Target Performance Incentive Scheme |
| 4.4 PI | orce majeure events | As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pi | Force majeure events | As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme (March 2008) p. 51 | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pi | Where TransGrid protection operates correctly due to a fault on a | | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme |
| 4.4 Pi | • | | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 Fo 4.6 W CU 4.7 Pl | Where TransGrid protection operates correctly due to a fault on a sustomer's or a third party system Pumping station supply interruption | | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 Fo 4.6 W cu 4.7 Pl 4.8 O | Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system | | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme |
| 4.4 Pl 4.5 Fo 4.6 W CC 4.7 Pl 4.8 O | Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system | | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 Fc 4.6 W cc 4.7 Pl 4.8 O vc | Where TransGrid protection operates correctly due to a fault on a sustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system inituites (No.) | | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme |
| 4.4 Pl 4.5 Fc 4.6 W CI 4.7 Pl 4.8 O VC Pl m D 5.1 O | Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system inimites (No.) Jetined exclusions Vutages on assets that are not providing prescribed transmission | (March 2008) p. 51 | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 Fc 4.6 W CL 4.7 Pl 4.8 O VC Pl m D 5.1 O Se | Where TransGrid protection operates correctly due to a fault on a sustomer's or a third party system pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system initutes (No.) Defined exclusions Dutages on assets that are not providing prescribed transmission ervices (e.g. some connection assets) | (March 2008) p. 51 | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Reference Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 Fc 4.6 W CL 4.7 Pl 4.8 O VC Pl m D 5.1 O Se | Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system inimites (No.) Jetined exclusions Vutages on assets that are not providing prescribed transmission | (March 2008) p. 51 | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 PH 4.5 F6 4.6 W CC 4.7 PH 4.8 O VC P M D D 5.1 O See 5.2 S | Where TransGrid protection operates correctly due to a fault on a sustomer's or a third party system pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter's - Loss of supply event frequency > 0.25 system initutes (No.) Defined exclusions Dutages on assets that are not providing prescribed transmission envices (e.g. some connection assets) Successful reclose events (less than one minute duration) Any outages shown to be caused by a fault or other event on a 'third' | (March 2008) p. 51 | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Reference (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4.4 Pl 4.5 Fe 4.6 W ct 4.7 Pl 4.8 O v D D 5.1 O Se 5.2 S 5.3 A pa pa in | Where TransGrid protection operates correctly due to a fault on a sustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system initutes (No.) Defined exclusions Dutages on assets that are not providing prescribed transmission services (e.g. some connection assets) Successful reclose events (less than one minute duration) Any outages shown to be caused by a fault or other event on a 'third arry system'-e.g. intertrip signal, generator outage, customer sistallation | (March 2008) p. 51 | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4.4 Pl 4.5 Fe 4.6 W ct 4.7 Pl 4.8 O v D D 5.1 O Se 5.2 S 5.3 A pa pa in | Where TransGrid protection operates correctly due to a fault on a sustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system initiates (No.) Defined exclusions Dutages on assets that are not providing prescribed transmission services (e.g. some connection assets) Successful reclose events (fess than one minute duration) Any outages shown to be caused by a fault or other event on a 'hird larty system'-e.g. intertrip signal, generator outage, customer | (March 2008) p. 51 | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 Fe 4.6 W cc 4.7 Pl 4.8 O vc P m D D Se 5.1 O Se in in 5.4 Pl | Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system indices (No.) Defined exclusions Dutages on assets that are not providing prescribed transmission services (e.g. some connection assets) Successful reclose vents (less than one minute duration) Any outages shown to be caused by a fault or other event on a third analy system'-e.g. intertrip signal, generator outage, customer installation Panned outages | Further description of exclusion Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 Fe 4.6 W Ct 4.7 Pl 4.8 O VC P m D D S 5.1 O S S 5.2 S 5.3 A A A A A A B A A B A B A B A B B B B B | Where TransGrid protection operates correctly due to a fault on a sustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system initiates (No.) Defined exclusions Dutages on assets that are not providing prescribed transmission envices (e.g., some connection assets) Successful reclose events (less than one minute duration) Any outages shown to be caused by a fault or other event on a 'third harry system'-e.g. intertrip signal, generator outage, customer installation Tainned outages Force majeure events | Further description of exclusion | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 Fc 4.6 W ct 4.7 Pl 4.8 O ct P m D D D 5.1 O S S 5.2 Si 5.3 A P p in in in 5.4 Pl 5.5 Fc 6 W | Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system indices (No.) Defined exclusions Dutages on assets that are not providing prescribed transmission services (e.g. some connection assets) Successful reclose vents (less than one minute duration) Any outages shown to be caused by a fault or other event on a third analy system'-e.g. intertrip signal, generator outage, customer installation Panned outages | Further description of exclusion Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 Fc 4.6 W ct 4.7 Pl 4.8 O v D D D D 5.1 O S S 5.2 S 5.3 A Pl in in in ct | Where TransGrid protection operates correctly due to a fault on a usustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system indicates (No.) Perfined exclusions Dutages on assets that are not providing prescribed transmission services (e.g. some connection assets) Successful reclose events (less than one minute duration) Any outages shown to be caused by a fault or other event on a third hardy system-e.g. intertrip signal, generator outage, customer installation Planned outages Force majeure events Where TransGrid protection operates correctly due to a fault on a | Further description of exclusion Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 F6 4.6 W cc 4.7 Pl 4.8 O vc Vc D D Se 5.1 O Se 5.2 Si 5.3 Al pin 5.4 Pl 5.5 F6 Vc Cc 5.7 Pl | Where TransGrid protection operates correctly due to a fault on a usustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system indicates (No.) Perfined exclusions Dutages on assets that are not providing prescribed transmission services (e.g. some connection assets) Successful reclose events (less than one minute duration) Any outages shown to be caused by a fault or other event on a third hardy system-e.g. intertrip signal, generator outage, customer installation Parned outages Force majeure events Where TransGrid protection operates correctly due to a fault on a usutomer's or a third party system Pumping station supply interruption | Further description of exclusion Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 F6 4.6 W Ct 4.7 Pl 4.8 O VC P D D D 5.1 O Se 5.2 Si 5.3 A pp in fin 5.4 Pl 5.5 F6 W Ct 5.7 Pl 5.8 O | Where TransGrid protection operates correctly due to a fault on a sustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system initutes (No.) Defined exclusions Dutages on assets that are not providing prescribed transmission ervices (e.g. some connection assets) Successful reclose events (less than one minute duration) Any outages shown to be caused by a fault or other event on a 'third varty system'-e.g. intertrip signal, generator outage, customer installation Planned outages Force majeure events Where TransGrid protection operates correctly due to a fault on a usustomer's or a third party system | Further description of exclusion Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Reference (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 Fe 4.6 W Ct 4.7 Pl D D D S 5.1 O S 5.2 Si S 5.3 A A pin in in 5.4 Pl Ct | Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system indicates (No.) Perfined exclusions Dutages on assets that are not providing prescribed transmission services (e.g. some connection assets) Successful reclose events (less than one minute duration) Any outages shown to be caused by a fault or other event on a third hardy system-e.g. intertrip signal, generator outage, customer installation Parned outages Force majeure events Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation | Further description of exclusion Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 F4 4.6 W CC CC P M M M M M M M M M M M M M M M M | Where TransGrid protection operates correctly due to a fault on a sustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system initutes (No.) Defined exclusions Dutages on assets that are not providing prescribed transmission services (e.g. some connection assets) Successful reclose events (less than one minute duration) Any outages shown to be caused by a fault or other event on a 'third varty system'-e.g. intertrip signal, generator outage, customer installation Planned outages Force majeure events Where TransGrid protection operates correctly due to a fault on a sustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation | Further description of exclusion Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme (March 2008) p. 51 | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4.4 Pl 4.5 Fe 4.6 W CC 4.7 Pl 4.8 O V P m D D S 5.1 O S S 5.2 S 5.3 A P in in 5.4 Pl 5.5 Fe 5.6 W C C P D D D D D D D D D D D D D D D D D | Where TransGrid protection operates correctly due to a fault on a sustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system initutes (No.) Defined exclusions Dutages on assets that are not providing prescribed transmission services (e.g. some connection assets) Successful reclose events (less than one minute duration) Any outages shown to be caused by a fault or other event on a 'third varty system'-e.g. intertrip signal, generator outage, customer installation Planned outages Force majeure events Where TransGrid protection operates correctly due to a fault on a sustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation | Further description of exclusion Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Reference (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 Fe 4.6 W Ct 4.7 Pl 4.8 O Ct D D D D S S S S S S S S S S S S S S S | Where TransGrid protection operates correctly due to a fault on a sustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system initutes (No.) Defined exclusions Dutages on assets that are not providing prescribed transmission envices (e.g. some connection assets) Successful reclose events (less than one minute duration) Any outages shown to be caused by a fault or other event on a 'third varty system'-e.g. intertrip signal, generator outage, customer stallation Planned outages Force majeure events Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 6 - Average Outage Duration Defined exclusions | Further description of exclusion Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme (March 2008) p. 51 | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 |
| 4.4 Pl 4.5 Fe 4.6 W Ct 4.7 Pl 4.8 O Ct D D D D S S S S S S S S S S S S S S S | Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system initiates (No.) Perimed exclusions Dutages on assets that are not providing prescribed transmission envices (e.g. some connection assets) Successful reclose events (less than one minute duration) Any outages shown to be caused by a fault or other event on a 'third varity system'-e.g. intertrip signal, generator outage, customer installation Planned outages Force majeure events Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system 'Zumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 6 - Average Outage Duration Perimed exclusions | Further description of exclusion Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme (March 2008) p. 51 | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 |
| 4.4 Pl 4.5 Ft 4.6 W Ct 4.7 Pl 4.8 O Se 5.1 O Se 5.2 Si 5.3 A P P Ct | Where TransGrid protection operates correctly due to a fault on a sustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system initutes (No.) Defined exclusions Dutages on assets that are not providing prescribed transmission envices (e.g. some connection assets) Successful reclose events (less than one minute duration) Any outages shown to be caused by a fault or other event on a 'third varty system'-e.g. intertrip signal, generator outage, customer stallation Planned outages Force majeure events Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 6 - Average Outage Duration Defined exclusions | Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme (March 2008) p. 51 Further description of exclusion Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme (March 2008) p. 51 | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 |
| 4.4 Pl 4.5 Ft 4.6 W 4.7 Pl 4.8 O V 5.1 O SE 5.1 O SE 5.2 Si 5.3 A Pl D D D D D D D D D D D D D D D D D D | Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system initiates (No.) Petined exclusions Dutages on assets that are not providing prescribed transmission envices (e.g., some connection assets) Successful reclose events (less than one minute duration) Nany outages shown to be caused by a fault or other event on a 'third warty system'-e.g., intertrip signal, generator outage, customer installation Planned outages Force majeure events Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 6 - Average Outage Duration Perfined exclusions Planned outages Amend outages Amend outages | Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme (March 2008) p. 51 Further description of exclusion | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 |
| 4.4 Pl 4.5 F4 4.6 W C C C C C C C C C C C C C C C C C C C | Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system initiates (No.) Perined exclusions Dutages on assets that are not providing prescribed transmission envices (e.g. some connection assets) Successful reclose events (less than one minute duration) Any outages shown to be caused by a fault or other event on a 'third varity system'-e.g. intertrip signal, generator outage, customer installation Planned outages Force majeure events Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system 'Zumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 6 - Average Outage Duration Perined exclusions Planned outages Amentary interruptions (less than one minute) Force majeure Any outages shown to be caused by a fault or other event on a '3rd vary system' e.g. intertrip signal, generator outage, customer | Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme (March 2008) p. 51 Further description of exclusion Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme (March 2008) p. 51 | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 |
| 4.4 Pl 4.5 F 4.6 W C C C C P D D D S 5.1 O S 5.2 S 5.3 A A A A A A A C C C C C C C C C C C C C | Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 5 - Loss of supply event frequency > 0.25 system initiates (No.) Defined exclusions Dutages on assets that are not providing prescribed transmission services (e.g. some connection assets) Duccessful reclose events (less than one minute duration) Any outages shown to be caused by a fault or other event on a 'third arry system'-e.g. intertrip signal, generator outage, customer sistallation Planned outages Force majeure events Where TransGrid protection operates correctly due to a fault on a ustomer's or a third party system Pumping station supply interruption Dutage caused by customer's own control system during a transient oltage fluctuation Parameter 6 - Average Outage Duration Defined exclusions Planned outages Admentary interruptions (less than one minute) Force majeure | Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme (March 2008) p. 51 Further description of exclusion Further description of exclusion As defined in the Force Majeure definition worksheet and Appendix E of the Service Target Performance Incentive Scheme (March 2008) p. 51 | (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Reference Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 34 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 Service Target Performance Incentive Scheme (March 2008) p. 35 |

Service Target Perfomance Incentive Scheme - Definition of Forece Majeure

| Definition of Force Majeure | Reference |
|---|---|
| For the purpose of applying the service target performance incentive scheme, force majeure events means any event, act or circumstance or | Service Target Performance Incentive Scheme |
| | (January 2007) p. 31 |
| of the part affected by any such event, which may include, without limitation, the following: - fire, lightning, explosion, flood, earthquake, storm, cyclone, action of the elements, riots, civil commotion, malicious damage, natural | |
| disaster, sabotage, act of a public enemy, act of God, war (declared or undeclared), blockage, revolution, radioactive contamination, toxic | |
| or dangerous chemical contamination or fore of nature. | |
| - action or inaction by a court, government agency (including denial, refusal or failure to grant any authorisation, despite timely best | |
| endeavour to obtain same) | |
| - strikes, lockouts, industrial and/or labour disputes and/or difficulties, work bans, blockades, picketing | |
| - acts or omissions (other than failure to pay money) of a party other than the TNSP, which party either is connected to or uses the high | |
| voltage grid or is directly connected to or uses a system for the supply of electricity that in turn is connected to the high voltage grid | |
| - where those acts or omissions affect the ability of the TNSP to perform its obligation under the service standard by virtue of that direct | |
| or indirect connection to or use of the high voltage grid | |
| In determining what force majeure events should be excluded the AER will consider the following: | |
| - was the event unforeseeable and its impact extraordinary, uncontrollable and not manageable? | |
| - does the event occur frequently? If so, how did the impact of the particular event differ? | |
| - could the TNSP, in practice, have prevented the impact (not necessarily the event itself)? | |
| - could the TNSP have effectively reduced the impact of the event by adopting better practices? | |
| | |