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3 February 2012

Australian Energy Regulator GPO Box 520 Melbourne VIC 3001

Dear Sir,

Performance Incentive Scheme Report for 2011 Calendar Year

Herewith I submit ElectraNet's annual Service Targets Performance Incentive Scheme (STPIS) report for the 2011 calendar year, which has been prepared in accordance with the applicable guidelines and revenue determination.

Clause 3.3(d) of the First Proposed Service Target Performance Incentive Scheme of January 2007 dictates that the timetable for the annual review will be decided on an annual basis by agreement between the AER and the relevant TNSP and will have due regard to the scheme and the TNSP's pricing obligations under the National Electricity Rules (the Rules).

ElectraNet is required to report actual performance for the period 1 January to 31 December 2011 against the performance measures determined by the AER in ElectraNet's revenue cap decision 2008-2013 and the subsequent Market Impact Parameter (MIP) decision of December 2010 and to provide:

- A list of events that ElectraNet believes should be excluded from the performance measures for the period, and for each event a description of the event and its impact, quantification of the impact and the reasons for the exclusion request; and
- The calculation of the financial incentive as per the revenue cap decision applying to the period.

These requirements are satisfied in the attached templates.

The STPIS is based on service standard measures that are common to all TNSPs. However, the ACCC recognised in its November 2003 decision on service standards that there must be flexibility in how these performance measures are implemented for each TNSP. In particular, the importance of

measuring performance consistently over time was emphasised. The STPIS is based on the assumption that performance measurement will be consistent with the way in which historical performance was derived for target setting.

On 11 March 2010, the Australian Energy Market Commission approved the addition of clause 11.32 of the Electricity Rules which enabled the early application of a MIP.

On 1 October 2010, ElectraNet Pty Ltd (ElectraNet) applied to the AER for the early application of the MIP. Subsequently the AER approved the early application of the MIP to ElectraNet commencing on 1 January 2011 with a target of 1862 dispatch intervals.

Separate templates have been provided with this report covering the conventional STPIS parameters and the MIP respectively.

<u>Discussion of specific exclusions</u>

Major project outages of more than 14 days

In 2004 ElectraNet applied for the exclusion of major line outages for the rebuilding of the Para - Waterloo 132kV transmission line. The ACCC's auditor Sinclair Knight Merz (SKM) recommended that the ACCC accept ElectraNet's exclusion as it was consistent with the definitions used for target setting for the STPIS. However, the ACCC decided that, as the work was included in the revenue cap it should not be excluded from the performance incentive, but that it would be appropriate that the time associated with the event be capped at 14 days in aggregate in calculating ElectraNet's transmission circuit availability figure. The AER subsequently incorporated this cap into the STPIS that has applied to ElectraNet since 1 July 2008.

During the 2011 ElectraNet managed a number of significant projects which each exceeded the 14 day cap provision. The treatment of these capped exclusions is detailed in the attached template.

Third party events – non customer

In 2009 ElectraNet sought to exclude a number of access related outages requested by third parties to facilitate road widening and high vehicle transport that occurred in the 2008 calendar year. ElectraNet maintained that these outages where clearly of a third party nature and satisfied the exclusion requirement in the definitions. The auditor, Parsons Brinckerhoff (PB), maintained that these outages did not satisfy the definition as the third party concerned was not a customer of ElectraNet subject to a transmission connection agreement (TCA). The AER subsequently granted these exclusions and stated that such outages would be assessed on a case by case basis in the future. ElectraNet has sought no exclusions of this kind for the 2011 calendar year.

Third party events - customer

For the 2009 and 2010 calendar years ElectraNet sought and received exclusions for a number of transmission line outages that were required to enable access by third parties to the transmission network. These works were:

- Required solely due to the obligations under clauses 5.2.3.(d)(1) and 6A.1.3 of the Rules and clause 4 of the Electricity Transmission Licence for ElectraNet to grant access to third parties to the transmission network;
- Conducted in accordance with TCA's between the customers and ElectraNet which were established following a customer access request;

 Minimised and coordinated in accordance with clauses 3.2 and 3.3 of the Electricity Transmission Code so as to reduce any consequent transmission service interruptions or restrictions.

These third party requested outages, which are excluded under the definitions, are listed in the attached templates.

The attachment lists all outages which are excluded by definition from the parameters and which the AER has nonetheless required us to report and request exclusions for.

Force majeure events

Tuesday 8 November 2011 - Davenport - Leigh Creek 132kV line

On Tuesday 8 November 2011 at 21:50, the Davenport - Leigh Creek 132kV line tripped and locked out after an extreme weather event passed through the northern end of the line. The subsequent patrol of the line identified the cause of the outage to be the full or partial failure of 6 steel lattice towers approximately 500 kilometres North of Adelaide.

To restore partial supply to Neuroodla Leigh Creek Coalfield and Leigh Creek South were disconnected from the 132kV line via line taps 160 kilometres South of Leigh Creek near the Neuroodla substation.

Local generation at Leigh Creek South returned local supply approximately 2 hours after the event. Approximately 0.5MW of load was lost at Neuroodla for 168 minutes, 1.26MW for 120 minutes at Leigh Creek South and 1.76MW for 10,709 minutes at Leigh Creek Coalfield. Normal supply was returned to all connection points on 16 November following the replacement of the damaged towers.

The event was unforeseeable and its impact extraordinary. Structure failures in service are rare and, absent negligence on the part of the TNSP, would satisfy any reasonable definition of force majeure.

ElectraNet could not have prevented the event but worked to effectively reduce the impact of the event by reconfiguration of the network and the use of all available resources to maintain supply to customers where possible and to expedite the replacement of the structures.

Saturday 17 December 2011 - Bungama - Baroota 132kV line

On Saturday 17 December 2011 at 20:37 the Bungama - Baroota 132kV line tripped due to an extreme weather event which resulted in the failure of several transmission structures. Under normal conditions supply can be back fed from Bungama via the Murraytown - Baroota 33kV line owned by ETSA Utilities however the supply changeover could not be achieved as that line had a number of poles destroyed in the same extreme weather event. Approximately 3.5MW of load was lost for 998 minutes until the Murraytown - Baroota 33kV line was re-instated by ETSA Utilities. Normal supply to the transmission connection point via the transmission network was returned on 21 December 2011 at 08:12 following the installation of new transmission structures.

The event was unforeseeable and its impact extraordinary. As noted above the destruction of transmission structures is rare. ElectraNet could not have prevented the event but worked to effectively reduce its impact.

To have two extreme weather events during the period result in the failure of multiple structures is extremely rare.

Monday 3 October 2011 - Snowtown Windfarm

On Monday 3 October 2011 at 23:51 the Snowtown – Snowtown Windfarm 33kV line tripped following the sabotage of communication cables at the Bungama Substation. The outage of the connection point resulted in the Snowtown Windfarm being disconnected from the transmission network and the accumulation of 106 affected dispatch intervals until the communication cables at Bungama were reinstated at 11:49 the following morning.

The sabotage of the cable is unique and such an event has not been experienced by ElectraNet before. The substation was entered over a security fence and the communication cable was the only asset interfered with. It appears that an axe or similar device was used to sever communication from the substation.

No interruptions occurred at ElectraNet's prescribed substations as backup protection schemes operated to maintain system security. When negotiating the connection agreement for the Snowtown substation the proponent sought a simple T connection rather than a meshed configuration (which is ElectraNet's preferred arrangement for this class of connection). The connection agreement notes that due to the connection configuration chosen for the negotiated substation, if the radio system fails for any reason the facility would be immediately disconnected from the existing transmission line and the protection for the existing transmission line would revert to distance protection.

ElectraNet's preferred configuration would not have resulted in disconnection of the windfarm. Given the nature of this incident and standard of service negotiated by the affected party, ElectraNet believes it has taken all reasonable measures within its power to prevent the occurrence of such an event.

Calculation of Incentive

ElectraNet's actual performance against the conventional STPIS parameters and the MIP respectively are shown in the attached AER Templates (Attachments 1 and 2) that summarise actual performance against each performance measure, including calculation of the S factors and the applicable revenue bonus/ penalty for the 2011 calendar year.

Calculations are presented with and without exclusions as required by the guideline and consistent with previous discussions with your officers.

Audit of Performance

Full access to all relevant systems and reports to support this application will be made available to the auditor.

Please do not hesitate to contact Bill Jackson on (08) 8404 7969 should you require clarification of any of the information provided in this report.

Yours sincerely,

Simon Appleby

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Senior Manager Regulatory Affairs

ATTACHMENT 1 – AER PROFORMA FOR CALCULATION OF S FACTOR AND INCENTIVE CONVENTIONAL PARAMETERS

TEMPLATE EXPLANATION



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

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

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

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

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

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

ElectraNet - SERVICE STANDARDS PERFORMANCE

| | | | Performance | Inputs | | | |
|----|---|--------|-------------|--------|-----------------|--|-------------------------------------|
| s | Performance parameter | Collar | Target | Сар | Revenue at Risk | Performance (Without exclusions) | Performance (With exclusions) |
| S1 | Total transmission circuit availability | 99.10% | 99.47% | 99.63% | 0.30% | 99.010000% | 99.579682% |
| S2 | Critical circuit availability – peak | 98.52% | 99.24% | 99.51% | 0.20% | 97.800000% | 98.683852% |
| S3 | Critical circuit availability – non-peak (zero weighting) | 98.88% | 99.62% | 99.95% | 0.00% | 98.000872% | 99.187752% |
| S4 | Loss of supply event frequency (>0.05 system minutes) | 11 | 8 | 6 | 0.10% | 10 | 7 |
| S5 | Loss of supply event frequency (>0.2 system minutes) | 6 | 4 | 2 | 0.20% | 4 | 1 |
| S6 | Average outage duration (minutes) | 119 | 78 | 38 | 0.20% | 705 | 256 |

| Revenue Determinat | ion Inputs |
|---------------------------------|-------------------|
| TNSP: | ElectraNet |
| STPIS version: | January, 2007 |
| Regulatory Determination | 2008/09 - 2012/13 |
| Base Year Allowed Revenue | \$ 229,990,000 |
| Base Year | 2008–09 |
| X-factor | -5.93% |
| Commencement of regulatory year | 01-Jul-08 |

| Other inputs | | | | | | | | | |
|-------------------|---------|--|--|--|--|--|--|--|--|
| Assessment | | | | | | | | | |
| Period | 2011 | | | | | | | | |
| Financial year to | | | | | | | | | |
| affect revenue: | 2012/13 | | | | | | | | |
| Date prepared: | | | | | | | | | |
| Revision date: | | | | | | | | | |

| Other Inputs | | | | | | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| Annual revenue adjusted for C | Mar-08 | Mar-09 | Mar-10 | Mar-11 | Mar-12 | Mar-13 | | | | |
| СРІ | 162.2 | 166.2 | 171.0 | 176.7 | | | | | | |

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.

| ElectraNet - Proposed e | xclusions | | | | | | | | | |
|---|---|---|---|--|--|---|---|-----------------------------------|--|--|
| CIRCUIT AVAILABILITY | Event proposed for exclusion | Description of the event and its impact on the network and performance | Cause of the event | Start date Star | rt End date End time | Circuits affected | Reactive plant or transformer | Quantitative impact | Reasons for exclusion request | Further references |
| Name of any circuit availability 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 and time of event | f End date and time of event | ame of circuits or plant affected | Name of any equipment Proaffected exception | oposed event on availability sub- | I details of the reason/s for excluding this event. Should include a reference to the defined exclusi d explain how it meets this exclusion definition (see Exclusion definition tab). Eg. Exclusion 1.2 Th | ons A TNSP may provide further details of an exclusion event. TNSP to provide reference. |
| | DALRYMPLE - WATTLE POINT 132 KV LINE ROBERTSTOWN - NORTH WEST BEND 132 KV LINE 2 | Bird caused flashover on transformer 1 33kV bushing at Dalrymple Outage < 1 minute | Birds/Animals Storm/Wind | 21/01/2011 06:10 04/02/2011 15:43 | | DALRYMPLE - WATTLE POINT 132 KV LINE OBERTSTOWN - NORTH WEST BEND 132 KV LINE 2 | N/A N/A | 1.85 0.00 | 1.1 Unregulated Transmission Asset Transient interruptions less than one (1) minute | Trip due to TF bushing flashover caused by birds Successful Reclose due to Storm/Wind |
| | MURRAY REDCLIFFS C/S - MURRAYLINK BERRI C/S 150KV LINE ROBERTSTOWN - NORTH WEST BEND 132 KV LINE 1 MONASH - BERRI CONVERTER STATION 132KV LINE | Supervisory shutdown / restoration after fault operation Outage < 1 minute outage due to lightning | followed North West Bend - Berri 132kV line fault Storm/Wind | 04/02/2011 18:16 | 6:00 04/02/2011 18:16:00 R | IURRAY REDCLIFFS C/S - MURRAYLINK BERRI C/S 150KV LINE OBERTSTOWN - NORTH WEST BEND 132 KV LINE 2 IONASH - BERRI CONVERTER STATION 132KV LINE | N/A N/A N/A | 6.13 0.00 | 1.1 Unrequiated Transmission Asset Transient interruptions less than one (1) minute 1.1 Unrequiated Transmission Asset | Result of North West Bend - Berri 132kV line fault Successful Reclose due to Storm/Wind Lightning |
| | KEITH - SNUGGERY 132KV LINE TIPS A - TORRENS ISLAND NORTH 66KV LINE 2 | Outage < 1 minute Insulator washing | Lightning Storm/Wind Insulators | 15/02/2011 18:32 27/02/2011 06:19 | 2:00 15/02/2011 18:32:00 K 2:00 27/02/2011 09:51:00 T | EITH - SNUGGERY 132KV LINE IPS A - TORRENS ISLAND NORTH 66KV LINE 2 | N/A N/A | 0.25 0.00 3.53 | Transient interruptions less than one (1) minute 1.1 Unregulated Transmission Asset | Successful Reclose due to Storm/Wind Insulator washing using live line methods |
| | WATERLOO - TEMPLERS 132KV LINE PORT LINCOLN TERMINAL - SLEAFORD 132KV LINE MURRAY REDCLIFFS C/S - MURRAYLINK BERRI C/S 150KV LINE | Outage < 1 minute Circuit Breaker Maintenance Shutdown / switching for customer | Storm/Wind Circuit Breakers | 08/03/2011 15:23 21/03/2011 12:43 | 0:00 08/03/2011 15:23:00 V 0:00 26/03/2011 14:52:00 F | /ATERLOO - TEMPLERS 132KV LINE ORT LINCOLN TERMINAL - SLEAFORD 132KV LINE IURRAY REDCLIFFS C/S - MURRAYLINK BERRI C/S 150KV LINE | N/A N/A N/A | 0.00 122.15 | Transient interruptions less than one (1) minute 1.1 Unregulated Transmission Asset | Successful Reclose due to Storm/Wind Circuit Breaker Maintenance Grayling Reprodit request |
| | MONRAY REDUCTIFES C/S - MORRAYLINK BERRI C/S 150KV LINE MONASH - MURRAYLINK BERRI C/S 132KV LINE CANOWIE - HALLETT 275KV LINE | Protection Signalling Tests Isolation for TRU | Customer Request Protection Customer Request | 30/03/2011 09:48 | 1:00 30/03/2011 18:20:00 N | IONASH - MURRAYLINK BERRI C/S 132KV LINE | N/A N/A N/A | 10.98 8.53 5.35 | 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset | Grayling Personell request Protection maintenance of unregulated asset Isolation for TRU |
| | TAILEM BEND - KEITH 132KV LINE BELALIE - NORTH BROWN HILL WINDFARM 275KV LINE | Isolate wind farm as per the wind farms request | Plant Failure Customer Request | 07/04/2011 08:01 | :00 07/04/2011 10:40:00 E | ANOWIE - HALLETT 275KV LINE AILEM BEND - KEITH 132KV LINE ELALIE - NORTH BROWN HILL WINDFARM 275KV LINE | N/A N/A N/A | 0.00 2.65 | Transient interruptions less than one (1) minute 1.1 Unregulated Transmission Asset | Successful Reclose due to flashed insulator Wind farm requested isolation |
| | PELICAN POINT - PELICAN POINT GT12 275KV LINE NEW OSBORNE - OCPL 66KV LINE 1 PELICAN POINT - PELICAN POINT ST18 275KV LINE | Isolation for International Power Isolation for customer Isolation for customer | Customer Request Customer Request Customer Request | 09/04/2011 06:45 | 5:00 09/04/2011 17:23:00 N 1:00 10/04/2011 16:59:00 P | ELICAN POINT - PELICAN POINT GT12 275KV LINE EW OSBORNE - OCPL 66KV LINE 1 ELICAN POINT - PELICAN POINT ST18 275KV LINE | N/A N/A | 54.63 10.63 32.48 | 1.2 3rd Party Outage 1.2 3rd Party Outage 1.2 3rd Party Outage | Customer Request Isolation for OCPL Isolation for International power |
| | NEW OSBORNE - OCPL 66KV LINE 2 MOKOTA - HALLETT HILL WIND FARM 275KV LINE DAVENPORT - OLYMPIC DAM WEST 275KV LINE | Isolation for customer Isolation for customer | Customer Request Customer Request Lines/Cables | 09/04/2011 17:56 11/04/2011 07:52 | 8:00 10/04/2011 17:23:00 N 8:00 12/04/2011 11:56:00 N | EW OSBORNE - OCPL 66KV LINE 2 IOKOTA - HALLETT HILL WIND FARM 275KV LINE AVENPORT - OLYMPIC DAM WEST 275KV LINE | N/A N/A N/A | 23.45 28.07 9.18 | 1.2 3rd Party Outage 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset | Isolation for CCPL Isolation for Hallett Hill Wind Farm Repair conductors |
| | DAVENPORT - OLYMPIC DAM WEST 275KV LINE DAVENPORT - OLYMPIC DAM WEST 275KV LINE | Trip when line was re-energised after conductor repairs | Plant Failure Plant Failure | 12/04/2011 07:38 12/04/2011 08:45 | 3:00 12/04/2011 08:45:00 C 3:00 12/04/2011 10:01:00 C | AVENPORT - OLYMPIC DAM WEST 275KV LINE AVENPORT - OLYMPIC DAM WEST 275KV LINE | N/A N/A | 1.12 1.27 | 1.1 Unrequilated Transmission Asset 1.1 Unrequilated Transmission Asset 1.1 Unrequilated Transmission Asset | Protection detected a 3 phase fault on restoration of the line Protection detected a 3 phase fault on restoration of the line |
| | DAVENPORT - PLAYFORD A HOUSE 132KV LINE PLAYFORD - NORTHERN POWER STATION 132KV LINE REDHILL - CLEMENTS GAP WIND FARM 132KV LINE | Isolation for customer Isolation for customer Isolation for customer | Customer Request Customer Request Customer Request | 16/04/2011 09:09 | 0:00 16/04/2011 09:24:00 | AVENPORT - PLAYFORD A HOUSE 132KV LINE AVENPORT - PLAYFORD A HOUSE 132KV LINE EDHILL - CLEMENTS GAP WIND FARM 132KV LINE | N/A N/A N/A | 0.25 0.25 6.98 | 1.2 3rd Party Outage 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset | Isolation for Alinta Energy Isolation for Alinta Energy Isolation for Clements Gao |
| | REDHILL - CLEMENTS GAP WIND FARM 132KV LINE TIPS A - TORRENS ISLAND NORTH 66KV LINE 1 | Communications failure Accidental trip during protection testing by customer | Plant Failure 3rd Party | 27/04/2011 22:58 04/05/2011 04:24 | 8:00 28/04/2011 01:47:00 R 8:00 04/05/2011 15:46:00 T | EDHILL - CLEMENTS GAP WIND FARM 132KV LINE IPS A - TORRENS ISLAND NORTH 66KV LINE 2 | N/A N/A | 2.82 11.37 | 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset | Communications failure between Bungama and Merriton Accidental trip during protection testing by Quarantine Power Station |
| | TAILEM BEND - KEITH 132KV LINE 2 MONASH - MURRAYLINK BERRI C/S 132KV LINE OLYMPIC DAM NORTH - PIMBA 132KV LINE | Outage < 1 minute Station DC supolv lost when personnel disconnected Monash Subs Isolation for customer | Plant Failure Maintenance Customer Request | 12/05/2011 15:00 | 0:00 12/05/2011 15:37:00 N | AILEM BEND - KEITH 132KV LINE 2 IONASH - MURRAYLINK BERRI C/S 132KV LINE ILYMPIC DAM NORTH - PIMBA 132KV LINE | N/A N/A N/A | 0.00 0.62 15.17 | Transient interruptions less than one (1) minute 1.1 Unrequlated Transmission Asset 1.1 Unrequlated Transmission Asset | Successful Reclose after insulator flashover Trio during maintenance Isolation for BHP Biliton |
| | DAVENPORT - NORTHERN POWER STATION 275KV LINE 1 DAVENPORT - NORTHERN POWER STATION 275KV LINE 1 | Northern Power Station conducting trip to house load tests Isolation for customer | 3rd Partv Customer Request | 20/05/2011 20:33 21/05/2011 11:11 | 0:00 20/05/2011 20:38:00 E 0:00 21/05/2011 13:56:00 E | AVENPORT - NORTHERN POWER STATION 275KV LINE 1 AVENPORT - NORTHERN POWER STATION 275KV LINE 1 | N/A N/A | 0.08 2.75 | 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset | Event caused by Alinta Energy Isolation for Alinta Energy |
| | MURRAY REDCLIFFS C/S - MURRAYLINK BERRI C/S 150KV LINE BELALIE - NORTH BROWN HILL WINDFARM 275KV LINE OLYMPIC DAM NORTH - PIMBA 132KV LINE | Isolation for customer Isolation for customer Isolation for customer | Customer Request Customer Request Customer Request | 27/05/2011 07:52 | 2:00 27/05/2011 12:35:00 B | IURRAY REDCLIFFS C/S - MURRAYLINK BERRI C/S 150KV LINE ELALIE - NORTH BROWN HILL WINDFARM 275KV LINE LYMPIC DAM NORTH - PIMBA 132KV LINE | N/A N/A N/A | 12.92 4.72 5.77 | 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset | Isolation for Grayling Personnel Wind farm requested isolation Replacing damaged insulators |
| | DAVENPORT - PLAYFORD A HOUSE 132KV LINE PLAYFORD - NORTHERN POWER STATION 132KV LINE | Isolation for customer Isolation for customer | Customer Request Customer Request | 12/06/2011 12:28 12/06/2011 12:28 | 0:00 12/06/2011 12:38:00 E 0:00 12/06/2011 12:38:00 F | AVENPORT - PLAYFORD A HOUSE 132KV LINE LAYFORD - NORTHERN POWER STATION 132KV LINE | N/A N/A | 0.17 0.17 | 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset | Isolation for Alinta Energy Isolation for Alinta Energy |
| | OLYMPIC DAM NORTH - PIMBA 132KV LINE OLYMPIC DAM NORTH - PIMBA 132KV LINE DAVENPORT - NORTHERN POWER STATION 275KV LINE 1 | Protection Maintenance Outage for Voltage Control Isolation for customer | Protection Voltage Control Customer Request | 10/07/2011 15:15 | 5:00 14/07/2011 13:14:00 C | LYMPIC DAM NORTH - PIMBA 132KV LINE LYMPIC DAM NORTH - PIMBA 132KV LINE AVENPORT - NORTHERN POWER STATION 275KV LINE 1 | N/A N/A N/A | 80.23 93.98 35.80 | 1.1 Unrequiated Transmission Asset 1.1 Unrequiated Transmission Asset 1.2 3rd Party Outage | Isolation for protection maintenance Outage for Voltage Control Isolation for Finders Power |
| | DAVENPORT - CULTANA 275KV LINE DAVENPORT - CULTANA 275KV LINE | Outage for Voltage Control Outage for Voltage Control | Voltage Control Voltage Control | 13/07/2011 00:19 | 06:12:00 13/07/2011 06:12:00 D | AVENPORT - PIMBA 132KV LINE AVENPORT - PIMBA 132KV I INF | N/A N/A | 5.88 29.47 | 1.3 Outages to Control Voltage 1.3 Outages to Control Voltage | Outage for Voltage Control Outage for Voltage Control |
| | OLYMPIC DAM NORTH - PIMBA 132KV LINE NEW OSBORNE - TIPS A 66KV LINE 3 NEW OSBORNE - TIPS A 66KV LINE 4 | Outage for Voltage Control Configure TIPS A switchyard for black start test via Quarantine Pow Configure TIPS A switchyard for black start test via Quarantine Pow | | 14/07/2011 13:47 24/07/2011 08:28 24/07/2011 08:29 | 7:00 18/07/2011 09:10:00 0 3:00 24/07/2011 13:30:00 N | LYMPIC DAM NORTH - PIMBA 132KV LINE EW OSBORNE - TIPS A 66KV LINE 3 EW OSBORNE - TIPS A 66KV LINE 4 | N/A N/A N/A | 91.38 5.03 5.03 | 1.1 Unregulated Transmission Asset 1.2 3rd Party Outage 1.2 3rd Party Outage | Outage for Voltage Control Outage for Black Start test Outage for Black Start test |
| | HEYWOOD - SOUTH EAST 275KV LINE 1 PLAYFORD - NORTHERN POWER STATION 132KV LINE | Isolation for customer Isolation for customer | Customer Request Customer Request | 01/08/2011 05:00 10/08/2011 01:16 | 0:00 01/08/2011 12:58:00 F 0:00 12/08/2011 10:16:00 F | EYWOOD - SOUTH EAST 275KV LINE LAYFORD - NORTHERN POWER STATION 132KV LINE | N/A N/A | 7.97 57.00 | 1.2 3rd Party Outage 1.1 Unregulated Transmission Asset | Isolation for SP Ausnet Isolation for Augusta Operation Personel |
| | OLYMPIC DAM NORTH - PIMBA 132KV LINE DAVENPORT - NORTHERN POWER STATION 275KV LINE 1 PLAYFORD - NORTHERN POWER STATION 132KV LINE | Outage for Voltage Control Isolation for customer Isolation for customer | Voltage Control Customer Request Customer Request | 10/08/2011 13:55 13/08/2011 10:28 | 5:00 18/10/2011 13:33:00 C 3:00 02/10/2011 10:54:00 D | LYMPIC DAM NORTH - PIMBA 132KV LINE AVENPORT - NORTHERN POWER STATION 275KV LINE 1 LAYFORD - NORTHERN POWER STATION 132KV LINE | N/A N/A N/A | 1655.63 1200.43 198.45 | 1.1 Unrequiated Transmission Asset 1.1 Unrequiated Transmission Asset 1.1 Unrequiated Transmission Asset | Outage for Voltage Control Isolation for Alinta Energy Isolation for Augusta Operation Personel |
| | ARDROSSAN WEST - DALRYMPLE 132KV LINE PLAYFORD - NORTHERN POWER STATION 132KV LINE | Outage < 1 minute Isolation for customer | Plant Failure Customer Request | 22/08/2011 23:37 30/08/2011 09:58 | 7:00 22/08/2011 23:37:00 A 8:00 30/08/2011 17:48:00 F | RDROSSAN WEST - DALRYMPLE 132KV LINE LAYFORD - NORTHERN POWER STATION 132KV LINE | N/A N/A | 0.00 7.83 | Transient interruptions less than one (1) minute 1.1 Unregulated Transmission Asset | Event caused by insulator flashover Isolation for Augusta Operation Personel |
| | PLAYFORD - NORTHERN POWER STATION 132KV LINE PLAYFORD - NORTHERN POWER STATION 132KV LINE PLAYFORD - NORTHERN POWER STATION 132KV LINE | Isolation for customer Isolation for customer Isolation for customer | Customer Request Customer Request Customer Request | 01/09/2011 07-59 | -nn n1/ng/2011 16-52-nn P | LAYFORD - NORTHERN POWER STATION 132KV LINE LAYFORD - NORTHERN POWER STATION 132KV LINE LAYFORD - NORTHERN POWER STATION 132KV LINE | N/A N/A N/A | 7.63 8.88 9.27 | 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset | Isolation for Augusta Operation Personel Isolation for Augusta Operation Personel Isolation for Augusta Operation Personel |
| | PLAYFORD - NORTHERN POWER STATION 132KV LINE PELICAN POINT - PELICAN POINT GT11 275KV LINE | Isolation for customer | Customer Request Customer Request | 06/09/2011 08:40 07/09/2011 10:32 | 0:00 06/09/2011 16:10:00 F 0:00 23/09/2011 16:23:00 F | LAYFORD - NORTHERN POWER STATION 132KV LINE ELICAN POINT - PELICAN POINT GT11 275KV LINE | N/A N/A | 7.50 389.85 | 1.1 Unrequiated Transmission Asset 1.1 Unrequiated Transmission Asset 1.2 3rd Party Outage | Isolation for Augusta Operation Personel Isolation for International power |
| | TIPS A - TORRENS ISLAND NORTH 66KV LINE 1 TORRENS ISLAND NORTH - QPS GT5 66KV LINE NEW OSBORNE - TIPS A 66KV LINE 3 | Protection Maintenance Protection Maintenance Protection Maintenance | Protection Protection Protection | 08/09/2011 09:42 | 2:00 08/09/2011 16:09:00 T | IPS A - TORRENS ISLAND NORTH 66KV LINE 1 ORRENS ISLAND NORTH - QPS GTS 66KV LINE EW OSBORNE - TIPS A 66KV LINE 3 | N/A N/A N/A | 6.45 6.45 6.35 | 1.1 Unrequiated Transmission Asset 1.1 Unrequiated Transmission Asset 1.2 3rd Party Outage | Isolation for protection maintenance Isolation for protection maintenance Isolation for protection maintenance |
| | NEW OSBORNE - OCPL 66KV LINE 1 NEW OSBORNE - OCPL 66KV LINE 1 | I solation for customer Isolation for customer | Customer Request Customer Reauest | 10/09/2011 07:11 15/09/2011 09:59 | :00 10/09/2011 07:58:00 N :00 17/09/2011 11:37:00 N | EW OSBORNE - OCPL 66KV LINE 1 EW OSBORNE - OCPL 66KV LINE 2 | N/A N/A | 0.78 49.63 | 1.2 3rd Party Outage 1.2 3rd Party Outage | Isolation for OCPL Isolation for OCPL |
| | PELICAN POINT - PELICAN POINT ST18 275KV LINE PLAYFORD - NORTHERN POWER STATION 132KV LINE HUMMOCKS - SNOWTOWN - BUNGAMA 132KV LINE | Isolation for customer | Customer Request Customer Request Lightning | 23/09/2011 08:46 | 6:00 23/09/2011 15:13:00 F 0:00 23/09/2011 17:36:00 F | ELICAN POINT - PELICAN POINT ST18 275KV LINE LAYFORD - NORTHERN POWER STATION 132KV LINE UMMOCKS - SNOWTOWN - BUNGAMA 132KV LINE | N/A N/A N/A | 6.45 6.27 0.00 | 1.2 3rd Party Outage 1.1 Unregulated Transmission Asset Transient interruptions less than one (1) minute | Isolation for International power Isolation for Auousta Operation Personel Successful Reclose due to lightning/storm |
| | CANOWIE - HALLETT 275KV LINE CANOWIE - ROBERTSTOWN 275KV LINE | Outage < 1 minute Outage < 1 minute | Lightning Lightning | 28/09/2011 05:28 28/09/2011 05:28 | 8:00 28/09/2011 05:28:00 C 8:00 28/09/2011 05:28:00 C | ANOWIE - HALLETT 275KV LINE ANOWIE - ROBERTSTOWN 275KV LINE | N/A N/A | 0.00 0.00 | 1.1 Unregulated Transmission Asset Transient interruptions less than one (1) minute | Successful Reclose due to liahtnina/storm Successful Reclose due to lightning/storm |
| | REDHILL - CLEMENTS GAP WIND FARM 132KV LINE BERRI - NORTH WEST BEND 132KV LINE 2 MONASH - BERRI CONVERTER STATION 132KV LINE | Outage < 1 minute | Plant Failure Plant Failure Plant Failure | 04/10/2011 06:39 | 0:00 04/10/2011 06:39:00 B | EDHILL - CLEMENTS GAP WIND FARM 132KV LINE ERRI - NORTH WEST BEND 132KV LINE 2 IONASH - BERRI CONVERTER STATION 132KV LINE | N/A N/A N/A | 8.03 0.00 2.10 | 1.1 Unregulated Transmission Asset Transient interruptions less than one (1) minute 1.1 Unregulated Transmission Asset | Communications failure in mid north Successful Reclose due to insulator flashover Trip in response to Berri - North West Bend 132kV line 2 reclose |
| | OLYMPIC DAM WEST - OLYMPIC DAM NORTH 132KV LINE 2 LADBROKE GROVE - PENOLA WEST 132KV LINE | Isolation for customer Isolation for customer | Customer Request Customer Request | 05/10/2011 19:31 10/10/2011 08:40 | 1:00 06/10/2011 19:30:00 C 1:00 12/10/2011 12:59:00 T | LYMPIC DAM WEST - OLYMPIC DAM NORTH 132KV LINE 2 ORRENS ISLAND NORTH - QPS GTS 66KV LINE | N/A N/A | 23.98 52.32 | 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset | Isolation for OD-BHP personnel Isolation for Origin Energy |
| | MURRAY REDCLIFFS C/S - MURRAYLINK BERRI C/S 150KV LINE MURRAY REDCLIFFS C/S - MURRAYLINK BERRI C/S 150KV LINE MONASH - BERRI CONVERTER STATION 132KV LINE | Isolation for customer Isolation for customer Protection Maintenance | Customer Request Customer Request Protection | 12/10/2011 06:30 | 0:00 12/10/2011 18:38:00 N 0:00 12/10/2011 18:25:00 N | IURRAY REDCLIFFS C/S - MURRAYLINK BERRI C/S 150KV LINE IURRAY REDCLIFFS C/S - MURRAYLINK BERRI C/S 150KV LINE IONASH - BERRI CONVERTER STATION 132KV LINE | N/A N/A N/A | 13.68 12.13 10.12 | 1.1 Unrequiated Transmission Asset 1.1 Unrequiated Transmission Asset 1.1 Unrequiated Transmission Asset | Isolation for Grayling Personnel Isolation for Grayling Personnel end to end protection tests on Monash - Murraylink 132kV line |
| | MURRAY REDCLIFFS C/S - MURRAYLINK BERRI C/S 150KV LINE HEYWOOD - SOUTH EAST 275KV LINE 1 | Isolation for customer Isolation for customer | Customer Request Customer Request | 13/10/2011 06:30 | 0:00 13/10/2011 22:37:00 N 0:00 17/10/2011 16:43:00 F | IURRAY REDCLIFFS C/S - MURRAYLINK BERRI C/S 150KV LINE FYWOOD - SOUTH FAST 275KV LINE 1 | N/A N/A | 16.12 7.13 | 1.1 Unregulated Transmission Asset 1.2 3rd Party Outage | Isolation for Grayling Personnel Isolation for SP-AusNet |
| | HEYWOOD - SOUTH EAST 275KV LINE 1 HEYWOOD - SOUTH EAST 275KV LINE 1 HEYWOOD - SOUTH EAST 275KV LINE 1 | Isolation for customer Isolation for customer Isolation for customer | Customer Request Customer Request Customer Request | 19/10/2011 06:36 20/10/2011 06:31 | 00 18/10/2011 17:02:00 F 0:00 19/10/2011 16:33:00 F 0:00 20/10/2011 16:34:00 F | EYWOOD - SOUTH EAST 275KV LINE 1 EYWOOD - SOUTH EAST 275KV LINE 1 EYWOOD - SOUTH EAST 275KV LINE 1 | N/A N/A N/A | 10.42 9.95 10.05 | 1.2 3rd Party Outage 1.2 3rd Party Outage 1.2 3rd Party Outage | Isolation for SP-AusNet Isolation for SP-AusNet Isolation for SP-AusNet |
| | PELICAN POINT - PELICAN POINT GT12 275KV LINE PELICAN POINT - PELICAN POINT ST18 275KV LINE | Isolation for customer Isolation for customer | Customer Request Customer Request | 21/10/2011 08:49 22/10/2011 07:10 | 0:00 23/10/2011 18:55:00 F 0:00 23/10/2011 14:30:00 F | ELICAN POINT - PELICAN POINT GT12 275KV LINE ELICAN POINT - PELICAN POINT ST18 275KV LINE | N/A N/A | 58.10 31.33 | 1.2 3rd Party Outage 1.2 3rd Party Outage | Isolation for International power Isolation for International power |
| Total transmission | DAVENPORT - NORTHERN POWER STATION 275KV LINE 1 DALRYMPLE - WATTLE POINT 132 KV LINE DAVENPORT - OLYMPIC DAM WEST 275KV LINE | | Customer Request 3rd Party 3rd Party | 08/11/2011 09:23 08/11/2011 20:15 | 8:00 08/11/2011 09:23:00 D 6:00 09/11/2011 01:49:00 D | AVENPORT - NORTHERN POWER STATION 275KV LINE 1 ALRYMPLE - WATTLE POINT 132 KV LINE AVENPORT - OLYMPIC DAM WEST 275KV LINE | N/A N/A N/A | 259.58 0.00 5.57 | 1.1 Unrequiated Transmission Asset 1.1 Unrequiated Transmission Asset 1.1 Unrequiated Transmission Asset | Isolation for Alinta Energy Fault on windfarm asset Line fault |
| S1 circuit availability | DAVENPORT - LEIGH CREEK 132KV LINE CANOWIE - DAVENPORT 275KV LINE DAVENPORT - NORTHERN POWER STATION 275KV LINE 1 | Sever storms blew several poles over. Outage for Voltage Control | Storm/Wind Voltage Control | 08/11/2011 21:50 09/11/2011 07:39 | 0:00 09/11/2011 17:12:00 D 0:00 09/11/2011 07:54:00 D | AVENPORT - LEIGH CREEK 132KV LINE ANOWIE - DAVENPORT 275KV LINE AVENPORT - NORTHERN POWER STATION 275KV LINE 1 | N/A N/A N/A | 19.37 0.25 8.53 | 1.6 Force Majeure 1.3 Outages to Control Voltage | Severe storms blew several towers over. Duartion to restoration of Neuroodla Outage for Voltage Control Isolation for Alinta Energy |
| | DAVENPORT - NORTHERN POWER STATION 275KV LINE 1 SLEAFORD - PORT LINCOLN 132KV LINE PLAYFORD - NORTHERN POWER STATION 132KV LINE | Isolation for customer Outage < 1 minute Isolation for customer | Customer Request Storm/Wind Customer Request | 18/11/2011 21:52 | 2:00 18/11/2011 21:52:00 S | AVENPORT - NORTHERN POWER STATION 2/36V LINE T LEAFORD - PORT LINCOLN 132KV LINE LAYFORD - NORTHERN POWER STATION 132KV LINE | N/A N/A N/A | 8.53 0.00 8.85 | 1.1 Unrequiated Transmission Asset 1.1 Unrequiated Transmission Asset 1.1 Unrequiated Transmission Asset | Successful Reclose due to lightning/storm Isolation for Augusta Operation Personel |
| | DALRYMPLE - WATTLE POINT 132 KV LINE BELALIE - NORTH BROWN HILL WINDFARM 275KV LINE PLAYFORD - NORTHERN POWER STATION 132KV LINE | Isolation for customer Isolation for customer | Customer Request Customer Request | 06/12/2011 09:20 08/12/2011 07:13 | 0:00 06/12/2011 13:19:00 E 0:00 09/12/2011 15:52:00 E | ALRYMPLE - WATTLE POINT 132 KV LINE ELALIE - NORTH BROWN HILL WINDFARM 275KV LINE | N/A N/A | 3.98 32.65 | 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset | Isolation for AGL internal works Isolation for AGL internal works |
| | PLAYFORD - NORTHERN POWER STATION 132KV LINE PLAYFORD - NORTHERN POWER STATION 132KV LINE CLARE NORTH - MINTARO 132KV LINE | Isolation for customer Isolation for customer Isolation for customer | Customer Request Customer Request Customer Request | 14/12/2011 13:38 | 3:00 14/12/2011 16:31:00 F | LAYFORD - NORTHERN POWER STATION 132KV LINE LAYFORD - NORTHERN POWER STATION 132KV LINE LARE NORTH - MINTARO 132KV LINE | N/A N/A N/A | 4.72 2.88 2.75 | 1.1 Unrequiated Transmission Asset 1.1 Unrequiated Transmission Asset 1.2 3rd Party Outage | Swithing for Augusta Operators Switching Training for Alinta Isolation for Svneroen black start testing |
| | MINTARO - WATERLOO 132KV LINE PLAYFORD - NORTHERN POWER STATION 132KV LINE PLAYFORD - NORTHERN POWER STATION 132KV LINE | Isolation for customer Isolation for customer | Customer Request Customer Request | 15/12/2011 09:43 15/12/2011 11:11 | 8:00 15/12/2011 12:28:00 C 1:00 15/12/2011 15:25:00 F | LARE NORTH - MINTARO 132KV LINE LAYFORD - NORTHERN POWER STATION 132KV LINE | N/A N/A | 2.75 4.23 | 1.2 3rd Party Outage 1.1 Unregulated Transmission Asset | Isolation for Synergen black start testing Switching for Augusta personnel Switching for Augusta personnel |
| | PLAYFORD - NORTHERN POWER STATION 132KV LINE HUMMOCKS - KADINA EAST 132KV LINE ROBERTSTOWN - NORTH WEST BEND 132KV LINE 2 | Isolation for customer Outage < 1 minute Outage < 1 minute | Customer Request Storm/Wind Storm/Wind | 17/12/2011 15:54 17/12/2011 16:38 | 1:00 17/12/2011 15:54:00 F 1:00 17/12/2011 16:38:00 F | LAYFORD - NORTHERN POWER STATION 132KV LINE UMMOCKS - KADINA EAST 132KV LINE OBERTSTOWN - NORTH WEST BEND 132 KV LINE 2 | N/A N/A N/A | 3.67 0.00 0.00 | 1.1 Unrequiated Transmission Asset Transient interruptions less than one (1) minute Transient interruptions less than one (1) minute | Switching for Augusta personnel Successful Reclose due to lightning/storm Successful Reclose due to lightning/storm |
| | DALRYMPLE - WATTLE POINT 132 KV LINE BUNGAMA - BAROOTA 132KV LINE BUNGAMA - REDHILL - BRINKWORTH 132KV LINE | Outage < 1 minute | Other - Not Specified Plant Failure Storm/Wind | 17/12/2011 20:37 | 7:00 17/12/2011 22:57:00 E | ALRYMPLE - WATTLE POINT 132 KV LINE UNGAMA - BAROOTA 132KV LINE UNGAMA - REDHILL - BRINKWORTH 132KV LINE | N/A N/A N/A | 2.33 83.58 0.00 | 1.1 Unregulated Transmission Asset 1.6 Force Majeure Transient interruptions less than one (1) minute | Trip following Hummocks - Snowtown-Bungama 132kV line event Sever storms blew several poles over. Successful Reclose due to lightning/storm |
| | PARA - BUNGAMA 275KV LINE MINTARO - WATERLOO 132KV LINE | Outage < 1 minute Outage < 1 minute | Storm/Wind Lightning | 17/12/2011 21:15 17/12/2011 21:45 | 6:00 17/12/2011 21:15:00 F 6:00 17/12/2011 21:45:00 N | ARA - BUNGAMA 275KV LINE IINTARO - WATERLOO 132KV LINE | N/A N/A | 0.00 | Transient interruptions less than one (1) minute Transient interruptions less than one (1) minute | Successful Reclose due to lightning/storm Successful Reclose due to lightning/storm |
| | MINTARO - WATERLOO 132KV LINE HUMMOCKS - WATERLOO 132KV LINE ROBERTSTOWN - MOKOTA 275KV LINE | Outage < 1 minute Outage < 1 minute Outage < 1 minute | Lightning Storm/Wind Storm/Wind | 17/12/2011 22:02 | 2:00 17/12/2011 22:02:00 F | IINTARO - WATERLOO 132KV LINE UMMOCKS - WATERLOO 132KV LINE OBERTSTOWN - MOKOTA 275KV LINE | N/A N/A N/A | 0.00 0.00 0.00 | Transient interruptions less than one (1) minute Transient interruptions less than one (1) minute Transient interruptions less than one (1) minute | Successful Reclose due to lightning/storm Successful Reclose due to lightning/storm Successful Reclose due to lightning/storm |
| | MT BARKER - MOBILONG 132KV LINE MAYURRA - LAKE BONNEY WIND FARM STAGE 2B 33KV LINE MAYURRA - LAKE BONNEY WIND FARM STAGE 1 33KV LINE | Outage < 1 minute Circuit Breaker Repairs | Storm/Wind Circuit Breakers | 17/12/2011 22:41 28/12/2011 15:02 | 1:00 17/12/2011 22:41:00 N 1:00 28/12/2011 15:24:00 N | IT BARKER - MOBILONG 132KV LINE IAYURRA - LAKE BONNEY WIND FARM STAGE 2B 33KV LINE | N/A N/A | 0.00 0.00 0.37 | Transient interruptions less than one (1) minute 1.1 Unregulated Transmission Asset | Successful Reclose due to lightning/storm Isolation for repairs to circuit breaker |
| | MAYURRA - LAKE BONNEY WIND FARM STAGE 1 33KV LINE MAYURRA - LAKE BONNEY WIND FARM STAGE 2A 33KV LINE SOUTH EAST - MAYURRA - SNUGGERY 132KV LINE | Circuit Breaker Repairs | Circuit Breakers Circuit Breakers Circuit Breakers | 28/12/2011 15:02 | 2:00 28/12/2011 16:21:00 N | IAYURRA - LAKE BONNEY WIND FARM STAGE 1 33KV LINE IAYURRA - LAKE BONNEY WIND FARM STAGE 2A 33KV LINE OUTH EAST - MAYURRA - SNUGGERY 132KV LINE | N/A N/A N/A | 1.32 1.32 0.23 | 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset | Isolation for repairs to circuit breaker Isolation for repairs to circuit breaker Isolation for repairs to circuit breaker |
| | MAYURRA - LAKE BONNEY WIND FARM STAGE 2B 33KV LINE Port Lincoln Gas Turbine Connection (40840) | Crow Caused flashower Islanding tests | Birds/Animals Port Lincoln Gas Turbine Connection (40840) | 29/12/2011 14:56 | 6:00 29/12/2011 15:56:00 M | AYURRA - LAKE BONNEY WIND FARM STAGE 2B 33KV LINE ORT LINCOLN TERMINAL - SLEAFORD 132KV LINE | N/A N/A | 1.00 3.92 | 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset | Outage caused by wildlife Outage for islanding scheme |
| | CHERRY GARDENS - TUNGKILLO 275KV LINE CHERRY GARDENS - MT BARKER 132 KV LINE | Capital Project Work Capital Project Work | Mount Barker South 275_66kV Injection (11108) Mount Barker South 275_66kV Injection (11108) | 22/03/2011 09:03 | 3:00 30/03/2011 16:41:00 C | HERRY GARDENS - TUNGKILLO 275KV LINE HERRY GARDENS - MT BARKER 132 KV LINE | N/A N/A N/A | -0.129% 200.82 199.63 | 1.5 Capped Outages 1.5 Capped Outages | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | CHERRY GARDENS - TUNGKILLO 275KV LINE CHERRY GARDENS - MT BARKER 132 KV LINE MT BARKER - MOBILONG (MBR-HAHN NO.3) | Capital Project Work Capital Project Work | Mount Barker South 275_66kV Injection (11108) Mount Barker South 275_66kV Injection (11108) | 05/04/2011 08:06 05/04/2011 08:19 | 8:00 17/04/2011 16:17:00 C 8:00 17/04/2011 17:03:00 C | HERRY GARDENS - TUNGKILLO 275KV LINE HERRY GARDENS - MT BARKER 132 KV LINE | N/A N/A | 296.18 296.73 128.65 | 1.5 Capped Outages 1.5 Capped Outages | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | CHERRY GARDENS - TUNGKILLO 275KV LINE CHERRY GARDENS - TUNGKILLO 275KV LINE | Capital Project Work | Mount Barker South 275_66kV Injection (11108) Mount Barker South 275_66kV Injection (11108) Mount Barker South 275_66kV Injection (11108) | 30/04/2011 08:36 12/05/2011 17:46 | 8:00 12/05/2011 16:10:00 C 8:00 12/05/2011 17:47:00 C | IT BARKER - MOBILONG (MBR-HAHN NO.3) HERRY GARDENS - TUNGKILLO 275KV LINE HERRY GARDENS - TUNGKILLO 275KV LINE | N/A N/A N/A | 295.57 0.02 | 1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | CHERRY GARDENS - TAILEM BEND 275KV LINE WUDINNA - YADNARIE 132KV LINE | Capital Project Work Capital Project Work | Mount Barker South 275 66kV Injection (11108) Wudinna 2x25MVA 132 66kV Transformer Reinforcement | 16/05/2011 09:12 | 2:00 22/05/2011 11:26:00 0 | HERRY GARDENS - TAILEM BEND 275KV LINE | N/A N/A | -0.021% 195.67 | 1.5 Capped Outages 1.5 Capped Outages | Capped appropriate outage duration to 336hrs Capped appropriate outage duration to 336hrs |
| | WUDINNA - YADNARIE 132KV LINE | Capital Project Work | Wudinna 2x25MVA 132 66kV Transformer Reinforcement | 125/10/2011 09:14 | 3:00 08/11/2011 16:01:00 V | /UDINNA - YADNARIE 132KV LINE | N/A | 342.78 | 1.5 Capped Outages | Capped aggregrate outage duration to 336hrs |
| | MONASH - BERRI 132KV LINE 2 MONASH - BERRI 132KV LINE 1 MONASH - BERRI 132KV LINE 1 | Capital Proiect Work | Unit Asset Replacements 2008-2013 (11350) Unit Asset Replacements 2008-2013 (11350) Unit Asset Replacements 2008-2013 (11350) | 24/05/2011 08:51 | :00 24/05/2011 09:49:00 N | IONASH - BERRI 132KV LINE 2 IONASH - BERRI 132KV LINE 1 IONASH - BERRI 132KV LINE 1 | N/A N/A N/A | -0.034% 1.02 0.97 265.98 | 1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | MONASH - BERRI 132KV LINE 2 HAPPY VALLEY - MAGILL 275kV LINE | Capital Project Work Capital Project Work | Unit Asset Replacements 2008-2013 (11350) Unit Asset Replacements 2008-2013 (11350) | 12/09/2011 08:42 11/10/2011 08:18 | 2:00 22/09/2011 13:41:00 N 3:00 15/10/2011 15:03:00 H | IONASH - BERRI 132KV LINE 2 APPY VALLEY - MAGILL 275KV LINE | N/A N/A | 244.98 102.75 | 1.5 Capped Outages 1.5 Capped Outages | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | DAVENPORT - LEIGH CREEK 132KV LINE KEITH - KINCRAIG 132KV LINE KEITH - KINCRAIG 132KV LINE | Capital Project Work Capital Project Work | Unit Asset Replacements 2008-2013 (11350) Unit Asset Replacements 2008-2013 (11350) Unit Asset Replacements 2008-2013 (11350) | 30/10/2011 06:43 15/11/2011 08:30 21/11/2011 08:53 | 8:00 30/10/2011 12:26:00 E 9:00 15/11/2011 16:26:00 K 9:00 21/11/2011 18:54:00 K | AVENPORT - LEIGH CREEK 132KV LINE EITH - KINCRAIG 132KV LINE EITH - KINCRAIG 132KV LINE | N/A N/A N/A | 5.72 7.93 10.02 | 1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | KEITH - KINCRAIG 132KV LINE KINCRAIG - PENOLA WEST 275KV LINE | Capital Project Work | Unit Asset Replacements 2008-2013 (11350) Unit Asset Replacements 2008-2013 (11350) Unit Asset Replacements 2008-2013 (11350) | 27/11/2011 09:10 | 0:00 27/11/2011 18:57:00 K | EITH - KINCRAIG 132KV LINE EITH - KINCRAIG 132KV LINE INCRAIG - PENOLA WEST 275KV LINE | N/A N/A | 9.78 11.92 | 1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | BRINKWORTH - PARA 275 KV LINE BRINKWORTH - DAVENPORT 275 KV LINE | Capital Project Work Capital Project Work | Re-Insulation of F1910 and F1911 (AP11018) Re-Insulation of F1910 and F1911 (AP11018) | 06/06/2011 7:52 | :00 16/06/2011 15:50:00 B | RINKWORTH - PARA 275 KV LINE RINKWORTH - DAVENPORT 275 KV LINE | N/A N/A | -0.215% 247.97 268.08 | 1.5 Capped Outages 1.5 Capped Outages | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | BRINKWORTH - PARA 275 KV LINE BRINKWORTH - DAVENPORT 275 KV LINE | Capital Project Work Capital Project Work | Re-Insulation of F1910 and F1911 (AP11018) Re-Insulation of F1910 and F1911 (AP11018) | 03/07/2011 9:12 17/07/2011 10:00 | :00 16/07/2011 17:48:00 E :00 28/07/2011 14:16:00 E | RINKWORTH - PARA 275 KV LINE RINKWORTH - DAVENPORT 275 KV LINE | N/A N/A | 320.60 268.27 | 1.5 Capped Outages 1.5 Capped Outages | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | TEMPLERS WEST - BRINKWORTH 275 KV LINE TEMPLERS WEST - BRINKWORTH 275 KV LINE | Capital Project Work | Re-Insulation of F1910 and F1911 (AP11018) Re-Insulation of F1910 and F1911 (AP11018) | 31/07/2011 10:47 | :00 13/09/2011 13:26:00 T | EMPLERS WEST - BRINKWORTH 275 KV LINE EMPLERS WEST - BRINKWORTH 275 KV LINE | N/A N/A | 1058.65 226.47 | 1.5 Capped Outages 1.5 Capped Outages | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |

| | | DALRYMPLE - WATTLE POINT 132 KV LINE | Capital Project Work | Ardrossan West 132kV Substation Rebuild and 2x25MVA Tr | | | | | | N/A | | 9.28 | 1.1 Unregulated Trans | | Outage for Project |
|----------------|---|--|--|---|--|---------------------------|--|--|--|---|--------------------------|---|--|---|--|
| | | DORRIEN - ROSEWORTHY 132KV LINE ROSEWORTHY - TEMPLERS 132KV LINE | Capital Project Work Capital Project Work | Templers 275kV Substation Stage 1 (11204) Templers 275kV Substation Stage 1 (11204) | | | | | :00 DORRIEN - ROSEWORTHY 132KV LINE :00 ROSEWORTHY - TEMPLERS 132KV LINE | N/A N/A | -0.041% | 248.73 248.73 | 1.5 Capped O 1.5 Capped O | | Capped aggregate outage duration to 336hrs Capped aggregate outage duration to 336hrs |
| | | DORRIEN - ROSEWORTHY 132KV LINE ROSEWORTHY - TEMPLERS 132KV LINE | Capital Project Work Capital Project Work | Templers 275kV Substation Stage 1 (11204) Templers 275kV Substation Stage 1 (11204) | 19/07/2011 | 1 7:50:0 | 0 19/07/20 | 011 10:57 | :00 DORRIEN - ROSEWORTHY 132KV LINE :00 ROSEWORTHY - TEMPLERS 132KV LINE | N/A N/A | | 3.12 199.75 | 1.5 Capped O 1.5 Capped O | tages | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | | TEMPLERS WEST - PARA 275KV LINE TEMPLERS WEST - BRINKWORTH 275 KV LINE | Capital Project Work Capital Project Work | Templers 275kV Substation Stage 1 (11204) | 03/12/2011 | 1 7:46:0 | 0 03/12/20 | 011 17:41 | :00 TEMPLERS WEST - PARA 275KV LINE | N/A N/A | | 9.92 10.52 | 1.5 Capped O | tages | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | | TEMPLERS WEST - DORRIEN 132KV LINE | Capital Project Work | Templers 275kV Substation Stage 1 (11204) | 05/12/2011 | 1 8:01:0 | 0 05/12/20 | 011 17:53 | 00 TEMPLERS WEST - BRINKWORTH 275 KV LINE 00 TEMPLERS WEST - DORRIEN 132KV LINE | N/A | | 9.87 | 1.5 Capped O | | Capped aggregrate outage duration to 336hrs |
| | | CHERRY GARDENS - TIPS B 275 KV LINE | Capital Project Work | Para-PGW-TIPS Telecoms Bearer Replacement (11112) | 26/07/2011 | 1 7:45:0 | 0 03/08/20 | 011 16:07 | :00 CHERRY GARDENS - TIPS B 275 KV LINE | N/A | -0.056% | 200.37 | 1.5 Capped O | | Capped aggregrate outage duration to 336hrs |
| | | CHERRY GARDENS - TIPS B 275 KV LINE CHERRY GARDENS - TIPS B 275 KV LINE | Capital Project Work | Para-PGW-TIPS Telecoms Bearer Replacement (11112) Para-PGW-TIPS Telecoms Bearer Replacement (11112) | 23/08/2011 | 1 8:00:0 | 0 31/08/20 | 011 16:43 | :00 CHERRY GARDENS - TIPS B 275 KV LINE | N/A N/A | | 199.02 200.72 | 1.5 Capped O | tages | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | | CHERRY GARDENS - TIPS B 275 KV LINE | Capital Project Work | Para-PGW-TIPS Telecoms Bearer Replacement (11112) | | | | | | N/A | | 271.68 | 1.5 Capped Or | | Capped aggregrate outage duration to 336hrs |
| | | KEITH - KINCRAIG 132KV LINE KEITH - KINCRAIG 132KV LINE | Capital Project Work Capital Project Work | South East Dual Path Telecommunications (11216) South East Dual Path Telecommunications (11216) | 05/10/2011 | 1 7:14:0 | 0 13/10/20 | 011 15:58 | :00 KEITH - KINCRAIG 132KV LINE :00 KEITH - KINCRAIG 132KV LINE | N/A N/A | -0.071% | 154.92 200.73 | 1.5 Capped O 1.5 Capped O | | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | | KEITH - KINCRAIG 132KV LINE KEITH - KINCRAIG 132KV LINE | Capital Project Work Capital Project Work | South East Dual Path Telecommunications (11216) South East Dual Path Telecommunications (11216) | | | | | :00 KEITH - KINCRAIG 132KV LINE :00 KEITH - KINCRAIG 132KV LINE | N/A N/A | | 200.68 1.47 | 1.5 Capped O | | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | | KINCRAIG - PENOLA WEST 275KV LINE | Capital Project Work | South East Dual Path Telecommunications (11216) | 04/11/2011 | 1 14:39:0 | 0 09/11/20 | 011 11:49 | :00 KINCRAIG - PENOLA WEST 275KV LINE | N/A | | 117.17 | 1.5 Capped Or | | Capped aggregrate outage duration to 336hrs |
| | | WATERLOO EAST - WATERLOO 132KV LINE ROBERTSTOWN - MORGAN WHYALLA PS4 132 KV LINE | Capital Project Work Capital Project Work | Waterloo W/F Connection (10898) Waterloo W/F Connection (10898) | 01/09/2011 | 1 7:26:0 | 0 01/09/20 | 011 17 | 37 WATERLOO EAST - WATERLOO 132KV LINE 32 ROBERTSTOWN - MORGAN WHYALLA PS4 132 KV LINE | N/A N/A | -0.002% | 10.18 5.82 | 1.1 Unregulated Trans 1.1 Unregulated Trans | | Wind Farm Connetion Wind Farm Connetion |
| | | ROBERTSTOWN - MORGAN WHYALLA PS4 132 KV LINE WATERLOO EAST - MORGAN WHYALLA PS4 132 KV LINE | Capital Project Work | Waterloo W/F Connection (10898) | 02/09/2011 | 1 7:43:0 | 0 02/09/20 | 011 13 | 32 ROBERTSTOWN - MORGAN WHYALLA PS4 132 KV LINE 32 WATERLOO EAST - MORGAN WHYALLA PS4 132 KV LINE | N/A | | 5.82 | 1.1 Unregulated Trans | mission Asset | Wind Farm Connetion |
| | | HEYWOOD - SOUTH EAST 275KV LINE 1 | Isolation for customer | Customer Request | | | | | :00 HEYWOOD - SOUTH EAST 275KV LINE | N/A | | 4.97 | 1.2 3rd Party C | | Isolation for SP Ausnet |
| | | CANOWIE - ROBERTSTOWN 275KV LINE HEYWOOD - SOUTH EAST 275KV LINE 1 | Outage < 1 minute Isolation for customer | Lightning Customer Request | | | | | :00 CANOWIE - ROBERTSTOWN 275KV LINE :00 HEYWOOD - SOUTH EAST 275KV LINE 1 | N/A N/A | | 0.00 7.13 | Transient interruptions less 1.2 3rd Party 0 | | Successful Reclose due to lightning/storm Isolation for SP-AusNet |
| | | HEYWOOD - SOUTH EAST 275KV LINE 1 HEYWOOD - SOUTH EAST 275KV LINE 1 | | Customer Request | | | | | :00 HEYWOOD - SOUTH EAST 275KV LINE 1 | N/A | | 9.03 | 1.2 3rd Party C | utage | Isolation for SP-AusNet |
| | | HEYWOOD - SOUTH EAST 275KV LINE 1 | Isolation for customer Isolation for customer | Customer Request Customer Request | 20/10/2011 | 1 06:36:0 | 0 19/10/20 | 011 16:34 | :00 HEYWOOD - SOUTH EAST 275KV LINE 1 :00 HEYWOOD - SOUTH EAST 275KV LINE 1 | N/A N/A | | 8.55 8.57 | 1.2 3rd Party 0 1.2 3rd Party 0 | | Isolation for SP-AusNet |
| | | CANOWIE - DAVENPORT 275KV LINE PARA - BUNGAMA 275KV LINE | Outage for Voltage Control Outage < 1 minute | Voltage Control Storm/Wind | 09/11/2011 | 1 07:39:0 | 09/11/20 | 011 07:54 | :00 CANOWIE - DAVENPORT 275KV LINE :00 PARA - BUNGAMA 275KV LINE | N/A N/A | | 0.00 | 1.3 Outages to Con Transient interruptions less | | Outage for Voltage Control Successful Reclose due to lightning/storm |
| | | ROBERTSTOWN - MOKOTA 275KV LINE | Outage < 1 minute | Storm/Wind | 17/12/2011 | 1 22:11:0 | 0 17/12/20 | 011 22:11 | :00 ROBERTSTOWN - MOKOTA 275KV LINE | N/A | | 0.00 | Transient interruptions less | | Successful Reclose due to lightning/storm |
| | | CHERRY GARDENS - TUNGKILLO 275KV LINE | Capital Project Work | Mount Barker South 275_66kV Injection (11108) | 22/03/2011 | 1 07:34:0 | 0 30/03/20 | 011 16:23 | :00 CHERRY GARDENS - TUNGKILLO 275KV LINE | N/A | -0.023% | 80.38 | 1.5 Capped O | tages | Capped aggregrate outage duration to 336hrs |
| S2 | Critical circuit availability – peak | CHERRY GARDENS - TUNGKILLO 275KV LINE | Capital Project Work | Mount Barker South 275_66kV Injection (11108) | 05/04/2011 | 1 08:06:0 | 0 17/04/20 | 011 16:17 | :00 CHERRY GARDENS - TUNGKILLO 275KV LINE | N/A | | 107.90 | 1.5 Capped O | tages | Capped aggregrate outage duration to 336hrs |
| | | CHERRY GARDENS - TUNGKILLO 275KV LINE CHERRY GARDENS - TUNGKILLO 275KV LINE | Capital Project Work Capital Project Work | Mount Barker South 275_66kV Injection (11108) Mount Barker South 275_66kV Injection (11108) | 12/05/2011 | 1 17:46:0 | 0 12/05/20 | 011 17:47 | :00 CHERRY GARDENS - TUNGKILLO 275KV LINE :00 CHERRY GARDENS - TUNGKILLO 275KV LINE | N/A N/A | | 104.17 0.02 | 1.5 Capped Oi 1.5 Capped Oi | | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | | CHERRY GARDENS - TAILEM BEND 275KV LINE | Capital Project Work | Mount Barker South 275_66kV Injection (11108) | 16/05/2011 | 1 09:12:0 | 22/05/20 | 011 11:26 | :00 CHERRY GARDENS - TAILEM BEND 275KV LINE | N/A | | 58.80 | 1.5 Capped Or | itages | Capped aggregrate outage duration to 336hrs |
| | | BRINKWORTH - PARA 275 KV LINE | | Re-Insulation of F1910 and F1911 (AP11018) | | | | | :00 BRINKWORTH - PARA 275 KV LINE | N/A | -0.861% | 103.83 | 1.5 Capped O | | Capped aggregrate outage duration to 336hrs |
| | | BRINKWORTH - DAVENPORT 275 KV LINE BRINKWORTH - PARA 275 KV LINE | Capital Project Work Capital Project Work | Re-Insulation of F1910 and F1911 (AP11018) Re-Insulation of F1910 and F1911 (AP11018) | 19/06/2011 | 1 10:18:0 | 0 30/06/20 | 011 14:23 | :00 BRINKWORTH - DAVENPORT 275 KV LINE :00 BRINKWORTH - PARA 275 KV LINE | N/A N/A | | 102.38 120.00 | 1.5 Capped O | rtages | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | | BRINKWORTH - DAVENPORT 275 KV LINE | Capital Project Work | Re-Insulation of F1910 and F1911 (AP11018) | 17/07/2011 | 1 10:00:0 | 0 28/07/20 | 011 14:16 | :00 BRINKWORTH - DAVENPORT 275 KV LINE | N/A | | 102.27 | 1.5 Capped O | rtages | Capped aggregrate outage duration to 336hrs |
| | | TEMPLERS WEST - BRINKWORTH 275 KV LINE TEMPLERS WEST - BRINKWORTH 275 KV LINE | Capital Project Work Capital Project Work | Re-Insulation of F1910 and F1911 (AP11018) Re-Insulation of F1910 and F1911 (AP11018) | | | | | :00 TEMPLERS WEST - BRINKWORTH 275 KV LINE :00 TEMPLERS WEST - BRINKWORTH 275 KV LINE | N/A N/A | | 377.43 93.92 | 1.5 Capped O | | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | | THE CONTROL OF THE | | 2000 1010 | | .0.00.0 | 25.1720 | 20.30 | THE THE PARTY OF T | | | 50.02 | 1.3 Саррей О | | |
| | | CHERRY GARDENS - TUNGKILLO 275KV LINE | Capital Project Work | Mount Barker South 275_66kV Injection (11108) | 22/03/2011 | 1 07:34:0 | 0 30/03/20 | 011 16:23 | :00 CHERRY GARDENS - TUNGKILLO 275KV LINE | N/A | -0.212% | 120.43 | 1.5 Capped O | itages | Capped aggregrate outage duration to 336hrs |
| | | CHERRY GARDENS - TUNGKILLO 275KV LINE | Capital Project Work | Mount Barker South 275_66kV Injection (11108) | 05/04/2011 | 1 08:06:0 | 0 17/04/20 | 011 16:17 | :00 CHERRY GARDENS - TUNGKILLO 275KV LINE | N/A | | 188.28 | 1.5 Capped O | rtages | Capped aggregrate outage duration to 336hrs |
| | | CHERRY GARDENS - TUNGKILLO 275KV LINE CHERRY GARDENS - TAILEM BEND 275KV LINE | Capital Project Work Capital Project Work | Mount Barker South 275_66kV Injection (11108) Mount Barker South 275_66kV Injection (11108) | 30/04/2011 16/05/2011 | 1 09:12:0 | 12/05/20 10 22/05/20 | 011 11:26 | :00 CHERRY GARDENS - TUNGKILLO 275KV LINE :00 CHERRY GARDENS - TAILEM BEND 275KV LINE | N/A N/A | | 191.40 87.43 | 1.5 Capped Or 1.5 Capped Or | | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | O-March 1 | BRINKWORTH - PARA 275 KV LINE | Capital Project Work | Re-Insulation of F1910 and F1911 (AP11018) | | | | | :00 BRINKWORTH - PARA 275 KV LINE | N/A | -0.975% | 144.13 | 1.5 Capped O | | Capped aggregrate outage duration to 336hrs |
| 62 | availability - non- | BRINKWORTH - DAVENPORT 275 KV LINE | | Re-Insulation of F1910 and F1911 (AP11018) Re-Insulation of F1910 and F1911 (AP11018) | 19/06/2011 | 1 10:18:0 | 0 30/06/20 | 011 14:23 | :00 BRINKWORTH - DAVENPORT 275 KV LINE | N/A N/A | -0.975% | 165.70 | 1.5 Capped O | | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| 33 | peak (zero weighting) | BRINKWORTH - PARA 275 KV LINE BRINKWORTH - DAVENPORT 275 KV LINE | Capital Project Work Capital Project Work | Re-Insulation of F1910 and F1911 (AP11018) Re-Insulation of F1910 and F1911 (AP11018) | 03/07/2011 | 1 09:12:0 | 0 16/07/20 | 011 17:48 | :00 BRINKWORTH - PARA 275 KV LINE :00 BRINKWORTH - DAVENPORT 275 KV LINE | N/A N/A | | 200.60 166.00 | 1.5 Capped O | | Capped aggregrate outage duration to 336hrs Capped aggregrate outage duration to 336hrs |
| | | TEMPLERS WEST - BRINKWORTH 275 KV LINE | Capital Project Work | Re-Insulation of F1910 and F1911 (AP11018) | 31/07/2011 | 1 10:47:0 | 0 13/09/20 | 011 13:26 | :00 TEMPLERS WEST - BRINKWORTH 275 KV LINE | N/A | | 681.22 | 1.5 Capped Or | itages | Capped aggregrate outage duration to 336hrs |
| | | TEMPLERS WEST - BRINKWORTH 275 KV LINE | Capital Project Work | Re-Insulation of F1910 and F1911 (AP11018) | 31/10/2011 | 1 10:05:0 | 09/11/20 | 011 20:33 | :00 TEMPLERS WEST - BRINKWORTH 275 KV LINE | N/A | | 132.55 | 1.5 Capped O | itages | Capped aggregrate outage duration to 336hrs |
| | | CANOWIE - ROBERTSTOWN 275KV LINE | Outage < 1 minute | Lightning | 28/09/2011 | 1 5:28:0 | 0 28/09/1 | 11 05:28 | 00 CANOWIE - ROBERTSTOWN 275KV LINE | N/A | | 0.00 | Transient interruptions less | han one (1) minute | Successful Reclose due to lightning/storm |
| | | | | | | | | | | | | | | | |
| 1.055.0 | SUPPLY EVENT | | Description of the event and its impact on the network and | | | Start | | En | , , | Maximum system | | Demand shed and | | | |
| F | REQUENCY | Event proposed for exclusion | performance | Cause of the event | Start date | time | End dat | ate tim | Circuits affected | demand | | time | Quantitative impact | Reasons for exclusion request | Further references |
| Name of any lo | ss of supply parameters | Name of the event | Detail of the event. Such as: the action of any third parties, the actions of | | | | | | | | | | | | |
| | | | | A description of the cause of the event | Start date and | nd time of | End date a | and time of | Name of circuits or plant affected | demand that occurred | Proposed | The (MW) demand shed and the duration it | Impact of exclusion event o | LOS Parameter | A TNSP may provide further details of an exclusion event. TNSP to provide reference. |
| | | | the TNSP, assets damaged or interrupted. | A description of the cause of the event | Start date and event | nd time of | End date a event | | Name of circuits or plant affected | demand that occurred up until the time of the event | Proposed Excluded hrs | shed and the duration it was shed for. | Impact of exclusion event o | | A TNSP may provide further details of an exclusion event. TNSP to provide reference. |
| | | Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 | the TNSP, assets damaged or interrupted. On Wednesday 10 August 2011 at 0622, the Dorrien 33kV bus and 132/33/11kV TF2 tripped after ElectraNet received a direct | A description of the cause of the event | Start date and event 10/08/2011 | nd time of | End date a event 2 10/08/20 | | Name of circuits or plant affected 10 Dorrien 33kV bus and 132/33/11kV TF2 | | | shed and the duration it | Impact of exclusion event o | LOS Parameter | A TNSP may provide further details of an exclusion event. TNSP to provide reference. Direct intertrip from ETSA Utilities protection for their fault |
| | | | the TNSP, assets damaged or interrupted. On Wednesday 10 August 2011 at 0622, the Dorrien 33kV bus | A description of the cause of the event | Start date and event | 1 6:2 | End date a event 2 10/08/20 | | | | | shed and the duration it was shed for. 9 MW for 168 | Impact of exclusion event of | | |
| | | Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 | the TNSP, assets damaged of interrupted. On Wednesday 10 August 2011 at 0622, the Dorrien 38kV bus and 132/33/11kV TP2 tripped after ElectraNet received a direct intertrip signal from ETSA Utilities protection for an EU fault. | A description of the cause of the event | 10/08/2011 | 1 6:2 | event 22 10/08/20 | 011 5 | 10 Dorrien 33kV bus and 132/33/11kV TF2 | up until the time of the event 3413 | Excluded hrs | shed and the duration it was shed for. 9 MW for 168 minutes | 1 | ord Party | Direct intertrip from ETSA Utilities protection for their fault |
| | | | the TNSP, assets damaged or interrupted. On Wednesday 10 August 2011 at 0622, the Domien 38kV bus and 132/3311kV TP2 vipped lafter ElectraNet received a direct intertrip signal from ETSA Utilities protection for an EU fault. On Tuesday 8 November 2011 at 2150, the Davenport - Leigh Creek 132kV line tripped and locked out after a severe storm | A description of the cause of the event | 10/08/2011 | 1 6:2 | event 22 10/08/20 | 011 5 | | | Excluded hrs | shed and the duration it was shed for. 9 MW for 168 | 1 | | |
| | | Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 | he TNSP, assets damaged or interrupted. On Wednesday 10 August 2011 at 0622, the Domen 38kV bus and 132/39/11 kV TP2 tripped lafer ElectraNet received a direct intertrip signal from ETSA Utilities protection for an EU fault. On Tuesday 8 November 2011 at 2150, the Davenport - Leigh Creek 132kV line tripped and locked out after a severe storm passed through the northern end of the line blowing over several towers. To restore partial supply Leigh Creek Cola and South were | | 10/08/2011 | 1 6:2 | event 22 10/08/20 | 011 5 | 10 Dorrien 33kV bus and 132/33/11kV TF2 | up until the time of the event 3413 | Excluded hrs | shed and the duration it was shed for. 9 MW for 168 minutes | 1 | ord Party | Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation |
| | | Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 | he TREP, assets damaged or interrupted. On Wednesday 10 August 2011 at 0622, the Dorrien 33kV bus and 132/33/11kV TF2 tripped after ElectraNet received a direct intertrip signal from ETSA Utilities protection for an EU fault. On Tuesday 8 Nevember 2011 at 2150, the Davenport Leigh Creek 122kV line tripped and locked ut after a server atom passed through the northern end of the line blowing over several towers. To restore partial supply Leigh Creek Cad and South were disconnected from the 132kV line via line taps so that Neurroada could be restored. Local generation at Leigh Creek South kept | | 10/08/2011 | 1 6:2 | event 22 10/08/20 | 011 5 | 10 Dorrien 33kV bus and 132/33/11kV TF2 | up until the time of the event 3413 | Excluded hrs | shed and the duration it was shed for. 9 MW for 168 minutes | 1 | ord Party | Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation |
| | | Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 | he TREP, assets damaged or interrupted. On Wednesday 10 August 2011 at 0622, the Dorrien 33kV bus and 132/33/11kV TF2 tripped after ElectraNet received a direct intertrip signal from ETSA Utilities protection for an EU fault. On Tuesday 8 November 2011 at 2150, the Davenport - Leigh Creek 132kV line tripped and locked out after a severe storm passed through the northern end of the line bowing owe several passed through the northern end of the line bowing owe several sessed through the northern end of the line bowing owe several sessed through the northern end of the line bowing owe several sessed through the northern end of the line bowing owe several sessed through the northern end of the line bowing owe several sessed through the northern end of the line to the line of th | | 10/08/2011 | 1 6:2 | event 22 10/08/20 | 011 5 | 10 Dorrien 33kV bus and 132/33/11kV TF2 | up until the time of the event 3413 | Excluded hrs | shed and the duration it was shed for. 9 MW for 168 minutes | 1 | ord Party | Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation |
| | | Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 | he TRSP, assets damaged or interrupted. On Wednesday 10 August 2011 at 0622, the Dorrien 33kV bus and 132/33/11kV TF2 tripped after ElectraNet received a direct intertrip signal from ETSA Utilities protection for an EU fault. On Tuesday 8 November 2011 at 2150, the Davenport - Leigh Creek 132kV line tripped and locked out after a severe storm passed through the northern end of the line blowing over several towers. To restore partial supply Leigh Creek Coal and South were could be restored. Local generation at Leigh Creek South keyel locals supply on approximately 2brs after the event. Approximately closel supply on approximately 2brs after the event. Approximately Co5MW of load was lost at Neurodal for 168 initiates 1.75MW for 10700 minutes at Leigh Creek Coalfield and 1.26MW for 120 m | | 10/08/2011 | 1 6:2 | event 22 10/08/20 | 011 5 | 10 Dorrien 33kV bus and 132/33/11kV TF2 | up until the time of the event 3413 | Excluded hrs | shed and the duration it was shed for. 9 MW for 168 minutes | 1 | ord Party | Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation |
| | Loss of supply | Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 | he TBSP, assets danagad or interrupted. On Wednesday 10 August 2011 at 0622, the Dorrien 33kV bus and 132/33/11kV TF2 tripped after Electra/Net received a direct intertrip signal from ETSA Utilities protection for an EU fault. On Tuesday 8 November 2011 at 2150, the Davenport - Leigh Creek 132kV line tripped and locked out after a severe storm passed through the northern end of the line blowing over several towers. To restore partial supply Leigh Creek Coal and South were disconnected from the 132kV line via line tags so that Neurrodal could be restored. Local generation at Leigh Creek South kept local supply on approximately 2015 after the event. Approximately coal supply on approximately 2015 after the event. Approximately of 1010 for 1020 minutes at Leigh Creek Coalfield and 1.26MV for 120 minutes at Leigh Creek Coalfield and 1.26MV for 120 minutes at Leigh Creek South, Italing a 4.7 system minute event. If successful exclusion can not be obtained this event has the optometrial to increase the system minutes event. | | 10/08/2011 | 1 6:2 | event 22 10/08/20 | 011 5 | 10 Dorrien 33kV bus and 132/33/11kV TF2 | up until the time of the event 3413 | Excluded hrs | shed and the duration it was shed for. 9 MW for 168 minutes | 1 | ord Party | Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation |
| S 4 | Loss of supply event frequency (| Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 | he TNSP, asset danaged or interrupted. On Wednesday 10 August 2011 at 0622, the Dorrien 38kV bus and 132/33/11kV TF2 tripped after ElectraNet received a direct intertrip signal from ETSA Utilities protection for an EU fault. On Tuesday 8 November 2011 at 2150, the Davenport - Leigh Creek 132kV line tripped and locked out after a severe storm passed through the norther mend of the line blowing over several towers. To restore partial supply Leigh Creek Coal and South were disconnected from the 132kV line via line taps so that Neurrodal could be restored. Local generation at Leigh Creek South kept 0.05kW of load was lost at Neurodal for 168 minutes, 1.76kW for 10700 minutes at Leigh Creek Coalfield and 1.26kW for 120 minutes at Leigh Creek Coalfield and 1.26kW for 120 minutes at Leigh Creek South, totalling a 4.7 system minute event. If successful exclusion can not be obtained this even thas the potential to increase the system minutes > 0.05 from 3 to 4 and > 0.2 from 1 to 2. ADD has the potential to increase from 340 | | 10/08/2011 | 1 6:2 | event 22 10/08/20 | 011 5 | 10 Dorrien 33kV bus and 132/33/11kV TF2 | up until the time of the event 3413 | Excluded hrs | shed and the duration it was shed for. 9 MW for 168 minutes | 1 | ord Party | Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation |
| S4 | Loss of supply event frequency (| Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 | he TBSP, assets danagad or interrupted. On Wednesday 10 August 2011 at 0622, the Dorrien 33kV bus and 132/33/11kV TF2 tripped after ElectraNet received a direct intertrip signal from ETSA Utilities protection for an EU fault. On Tuesday 8 November 2011 at 2150, the Davenport - Leigh Creek 132kV line tripped and locked out after a severe storm passed through the northern end of the line blowing over several towers. To restore partial supply Leigh Creek Coal and South were disconnected from the 132kV line via line tags so that Neurrodal could be restored. Local generation at Leigh Creek South kept local supply on approximately 20x after the event. Approximately coal supply on approximately 20x after the event. Approximately of 10x | | 10/08/2011 | 1 6:2 | event 22 10/08/20 | 011 5 | 10 Dorrien 33kV bus and 132/33/11kV TF2 | up until the time of the event 3413 | Excluded hrs | shed and the duration it was shed for. 9 MW for 168 minutes | 1 | ord Party | Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation |
| \$4 | Loss of supply event frequency (| Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 | he TBSP, assets damaged or interrupted. On Wednesday 10 August 2011 at 0622, the Dorrien 33kV bus and 132/33/11kV TF2 tripped after ElectraNet received a direct intertrip signal from ETSA Utilities protection for an EU fault. On Tuesday 8 November 2011 at 2150, the Davenport - Leigh Creek 132kV line tripped and locked out after a severe storm passed through the northern end of the line blowing over several towers. To restore partial supply Leigh Creek Coal and South were disconnected from the 132kV line via line tags so that Neutrodal could be restored. Local generation at Leigh Creek South kept local supply on approximately 3th safet the event. Approximately 0.5MV of 10d wines and the function of 10d includes 10d lines 10d lines and 10d lines | | 10/08/2011 | 1 6:2 | event 22 10/08/20 | 011 5 | 10 Dorrien 33kV bus and 132/33/11kV TF2 | up until the time of the event 3413 | Excluded hrs | shed and the duration it was shed for. 9 MW for 168 minutes | 1 | ord Party | Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation |
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| | Loss of supply event frequency (>0.05 system minutes) Loss of supply event frequency (>0.2 system minutes) | Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 Event 2536 - Davenport - Leigh Creek 132kV line Event 2552 - Bungama - Baroota 132kV line Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 Event 2509 - Davenport - Leigh Creek 132kV line | he TBEP, asset damaged or interrupted. On Wednesday 10 August 2011 at 0622, the Dorrien 38kV bus and 132/33/11kV TF2 tripped after ElectraNet received a direct intertrip signal from ETSA Utilities protection for an EU fault. On Tuesday 8 November 2011 at 2150, the Davenport - Leigh Creek 132kV lime tripped and locked out after a severe storm tower. To restore partial supply, Leigh Creek Cost and South were disconnected from the 132kV line via line taps so that Neuroodia outle be restored. Local generation at Leigh Creek South kept local supply on approximately 2hrs after the event. Approximately closel supply on approximately 2hrs after the event. Approximately Loss May 10 and | | 08/11/2011 10/08/2011 08/11/2011 10/08/2011 | 1 621:5 | 0 09/11/20 0 09/11/20 2 2 10/08/20 0 09/11/20 | 011 5 | 10 Dorrien 33kV bus and 132/33/11kV TF2 Leigh Creek Coaffeldm Leigh Creek South, Neuroodla 15 Baroota 10 Dorrien 33kV bus and 132/33/11kV TF2 Leigh Creek Coaffeldm Leigh Creek South, Neuroodla | 3413 3413 3413 | Excluded hrs | shed and the duration it was shed for. 9 MW for 168 minutes 0.5MW for 1162 minutes 3.5MW for 998 minutes 0.5MW for 1162 minutes 3.5MW for 168 minutes | 1 | ird Party Force Majeure Force Majeure Ird Party Force Majure | Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation however the quality is not known Sever storms blew several poles over. Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation however the quality is not known |
| | Loss of supply event frequency (>0.05 system minutes) Loss of supply event frequency (>0.2 system minutes) | Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 Event 2536 - Davenport - Leigh Creek 132kV line Event 2552 - Bungama - Baroota 132kV line Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 Event 2509 - Davenport - Leigh Creek 132kV line | he TBEP, asset damaged or interrupted. On Wednesday 10 August 2011 at 0622, the Dorrien 38kV bus and 132/33/11kV TF2 tripped after ElectraNet received a direct intertrip signal from ETSA Utilities protection for an EU fault. On Tuesday 8 November 2011 at 2150, the Davenport - Leigh Creek 132kV lime tripped and locked out after a severe storm tower. To restore partial supply, Leigh Creek Cost and South were disconnected from the 132kV line via line taps so that Neuroodia outle be restored. Local generation at Leigh Creek South kept local supply on approximately 2hrs after the event. Approximately closel supply on approximately 2hrs after the event. Approximately Loss May 10 and | | 08/11/2011 10/08/2011 08/11/2011 10/08/2011 | 1 621:5 | 0 09/11/20 0 09/11/20 2 2 10/08/20 0 09/11/20 | 011 5 | 10 Dorrien 33kV bus and 132/33/11kV TF2 Leigh Creek Coaffeldm Leigh Creek South, Neuroodla 15 Baroota 10 Dorrien 33kV bus and 132/33/11kV TF2 Leigh Creek Coaffeldm Leigh Creek South, Neuroodla | 3413 3413 3413 | Excluded hrs | shed and the duration it was shed for. 9 MW for 168 minutes 0.5MW for 1162 minutes 3.5MW for 998 minutes 0.5MW for 1162 minutes 3.5MW for 168 minutes | 1 | ird Party Force Majeure Force Majeure Ird Party Force Majure | Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation however the quality is not known Sever storms blew several poles over. Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation however the quality is not known |
| 55 | Loss of supply event frequency (>0.05 system minutes) Loss of supply event frequency (>0.2 system minutes) | Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 Event 2536 - Davenport - Leigh Creek 132kV line Event 2552 - Bungama - Baroota 132kV line Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 Event 2509 - Davenport - Leigh Creek 132kV line | he TBEP, asset damaged or interrupted. On Wednesday 10 August 2011 at 0622, the Dorrien 38kV bus and 132/33/11kV TF2 tripped after ElectraNet received a direct intertrip signal from ETSA Utilities protection for an EU fault. On Tuesday 8 November 2011 at 2150, the Davenport - Leigh Creek 132kV lime tripped and locked out after a severe storm tower. To restore partial supply, Leigh Creek Cost and South were disconnected from the 132kV line via line taps so that Neuroodia outle be restored. Local generation at Leigh Creek South kept local supply on approximately 2hrs after the event. Approximately closel supply on approximately 2hrs after the event. Approximately Loss May 10 and | | 08/11/2011 10/08/2011 17/12/2011 | 1 62 | 2 10/08/20 0 09/11/20 7 18/12/20 0 09/11/20 | 011 5 | 10 Dorrien 33kV bus and 132/33/11kV TF2 12 Leigh Creek Coaffieldm Leigh Creek South, Neuroodia 15 Baroota 10 Dorrien 33kV bus and 132/33/11kV TF2 112 Leigh Creek Coaffieldm Leigh Creek South, Neuroodia | 3413 3413 3413 | Excluded hrs | shed and the duration it was shed for. 9 MW for 168 minutes 0.5MW for 1162 minutes 3.5MW for 998 minutes 0.5MW for 1162 minutes 3.5MW for 168 minutes | 1 | ird Party Force Majeure Force Majeure Ird Party Force Majure | Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation however the quality is not known Sever storms blew several poles over. Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation however the quality is not known |
| SS | Loss of supply event frequency (| Event 2536 - Davenport - Leigh Creek 132kV line Event 2552 - Bungama - Barocta 132kV line Event 2556 - Davenport - Leigh Creek 132kV line Event 2556 - Davenport - Leigh Creek 132kV line Event 2556 - Davenport - Leigh Creek 132kV line Event 2556 - Davenport - Leigh Creek 132kV line | he TBRP, asset danagad or interrupted. On Wednesday 10 August 2011 at 0622, the Dorrien 33kV bus and 132/33/11kV TF2 tripped after ElectraNet received a direct intertrip signal from ETSA Utilities protection for an EU fault. On Tuesday 8 November 2011 at 2150, the Davenport - Leigh Creek 132kV line tripped and locked out after a severe storm passed through the northern end of the line blowing over several processor and the control of the line blowing over several processor and the control of the line blowing over several processor and the control of the line blowing over several processor and the line of the line blowing over several processor and the line of the line blowing over several processor and the line of line of the line of line | Cause of the event | 08/11/2011 10/08/2011 08/11/2011 10/08/2011 | 1 6.2 1 21:5 1 20:3 | 2 10/08/20 0 09/11/20 7 18/12/20 0 09/11/20 | 011 5 | 10 Dorrien 33kV bus and 132/33/11kV TF2 12 Leigh Creek Coalfieldm Leigh Creek South, Neuroodla 15 Barroota 10 Dorrien 33kV bus and 132/33/11kV TF2 11 Leigh Creek Coalfieldm Leigh Creek South, Neuroodla 15 Barroota Circuits affected | 3413 3413 3413 3413 | Excluded hrs | shed and the duration is was shed for. 9 MW for 168 minutes 0.5MW for 1162 minutes 3.5MW for 998 minutes 9 MW for 168 minutes 9 MW for 168 minutes 3.5MW for 998 minutes 3.5MW for 998 minutes | 1 1 1 1 Capped Impact (if applicable) | rd Party Force Majeure Ind Party Force Majeure Force Majeure Reasons for exclusion request | Severe storms blew several towers over. Leigh Creek South had local generation however the quality is not known Sever storms blew several poles over. Sever storms blew several poles over. Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation however the quality is not known Severe storms blew several towers over. Leigh Creek South had local generation however the quality is not known |
| \$5 | Loss of supply event frequency (>2.0.6 System minutes) Loss of supply event frequency (-0.2 system minutes | Event 2536 - Davenport - Leigh Creek 132kV line Event 2552 - Bungama - Baroota 132kV line Event 2553 - Davenport - Leigh Creek 132kV line Event 2555 - Davenport - Leigh Creek 132kV line Event 2555 - Davenport - Leigh Creek 132kV line | he TBRP, assent damagador fritemspace. On Wednesday 10 August 2011 at 0622, the Dorrien 33kV bus and 132/33/11kV TF2 tripped after ElectraNet received a direct intentity signal from ETSA Utilities protection for an EU fault. On Tuesday 8 November 2011 at 2150, the Davenport - Leigh Creek 132kV line tripped and locked out after a severe storm passed through the northern end of the line blowing ower several passed through the northern end of the line blowing ower several passed through the northern end of the line blowing ower several passed through the northern end of the line blowing ower several passed through the northern end of the line blowing ower several sections as upply on approximately 2brs after the event. Approximately closed supply on approximately 2brs after the event. Approximately CostMW of load was lost at Neuroodal for 168 minutes 1.75kMW for 10709 minutes at Leigh Creek Cosulfied and 1.26kMW for 120 minutes and Leigh Creek Cosulfied and 1.26kMW for 120 minutes and Leigh Creek Cosulfied and 1.26kMW for 120 minutes and Leigh Creek Cosulfied and 1.26kMW for 120 minutes and Leigh Creek Cosulfied and 1.26kMW for 120 minutes and Leigh Creek Cosulfied and 1.26kMW for 120 minutes and Leigh Creek Cosulfied and 1.26kMW for 120 minutes and Leigh Creek Cosulfied and 1.26kMW for 120 minutes and 120 minutes and 1.26kmW for 120 minutes and 120kmW for 120 minutes and 120 minutes and 120 minutes and | | 10/08/2011 08/11/2011 17/12/2011 10/08/2011 17/12/2011 | 1 6.2 1 21:5 1 20:3 | 2 10/08/20 0 09/11/20 7 18/12/20 0 09/11/20 | 011 12 011 011 | 10 Dorrien 33kV bus and 132/33/11kV TF2 112 Leigh Creek Coaffieldm Leigh Creek South, Neuroodia 115 Baroota 116 Dorrien 33kV bus and 132/33/11kV TF2 117 Leigh Creek Coaffieldm Leigh Creek South, Neuroodia 118 Baroota 119 Baroota | 3413 3413 3413 | Excluded hrs | shed and the duration it was shed for. 9 MW for 168 minutes 0.5MW for 1162 minutes 3.5MW for 998 minutes 0.5MW for 1162 minutes 3.5MW for 168 minutes | 1 | rd Party Force Majeure Ind Party Force Majeure Force Majeure Reasons for exclusion request | Severe storms blew several towers over. Leigh Creek South had local generation however the quality is not known Sever storms blew several poles over. Sever storms blew several poles over. Direct intertrip from ETSA Utilities protection for their fault Severe storms blew several towers over. Leigh Creek South had local generation however the quality is not known Severe storms blew several towers over. Leigh Creek South had local generation however the quality is not known |

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|----|-----------------------------------|---|---|---------|----------|---------------|-------|--------------------------------------|-------|---|---------------|---|
| | | Event 2509 - Dorrien 33kV bus and 132/33/11kV TF2 | On Wednesday 10 August 2011 at 0622, the Dorrien 33kV bus and 132/33/11kV TF2 tripped after ElectraNet received a direct intertrip signal from ETSA Utilities protection for an EU fault. | 10/08/2 | 011 6:2 | 22 10/08/2011 | 9:10 | Dorrien 33kV bus and 132/33/11kV TF2 | 168 | 1 | 3rd Party | Direct intertrip from ETSA Utilities protection for their fault |
| | | | | | | | | | | | | |
| | | Event 2514 - Middleback asset | On Sunday 28 August 2011 at 0548 the 132/33kV TF 1 at Middeback substation tripped due to a One Steel asset blowing up. There was no load at the time of the event. This event has been classified as a 3rd Party event. | 28/08/2 | 011 5:4 | 48 28/08/2011 | 9:43 | Middleback One Steel | 235 | 1 | 3rd Party | ElectraNet protection operated to clear a 3rd party fault |
| | | Event 2533 - Kanmantoo plant failure | On Friday 4 November 2011 at 1921, the 132/11kV TF2 at Kammantoo tripped to lear an 11kV downstream fault within the Kammantoo men. Approximately 11kV of load was lost however the event has been classified as 3rd Parry and is excluded from the PT Scheme. | 04/11/2 | 011 19:2 | 21 04/11/2011 | 20:33 | Kanmantoo Mine | 72 | 1 | 3rd Party | ElectraNet protection operated to clear a 3rd party fault |
| | | | | | | | | | | | | |
| S6 | Average outage duration (minutes) | Event 2536 - Davenport - Leigh Creek 132kV line | On Tuesday 8 November 2011 at 2150, the Dawnport - Leigh Creek 1324 time tripped and locked out after a severe storm passed through the northern end of the line blowing over several towers. To restore partial supply Leigh Creek Coal and South were disconnected from the 1324V line via line taps so that Neurocodia could be restored. Local generation at Leigh Creek South kept local supply on however how is not known. Approximately 0.54WV of load was lost at Neurodal for 168 minutes, 1748W for 10709 minutes at Leigh Creek Coalited and 1.26WV for 120 minutes at Leigh Creek Coalited and 1.26WV for 120 minutes as the coalited of the 150 minutes as the coalited of the 150 minutes as the 150 minutes as the 150 minutes as 150 | 08/11/2 | 011 21:5 | 50 09/11/2011 | 17:12 | Neuroodia | 1162 | 1 | Force Majeure | Severe storms blew over several towers. |
| | | | | 08/11/2 | 011 21:5 | 50 16/11/2011 | 8:19 | Leigh Creek Coalfield | 10709 | 1 | Force Majeure | Severe storms blew over several towers. |
| | | | | | | | | Leigh Creek South | 120 | 1 | Force Majeure | Severe storms blew over several towers. |
| | | | | | | | | | | | | |
| | | Event 2552 - Bungama - Baroota 132kV line | On Saturday 17 December 2011 at 2037 the Bungama - Barcota 132kV line tripped as a result of strong storm conditions blowing over several poles. Under normal conditions supply can be back fed from Bungama via the Murraytown-Barcota 33kV line had a number of poles on the ground as well due to the storms. Approximately 5.5MW of load was lost for 998 minutes until the Murraytown-Barcota 33kV line had a number of poles on the ground as well due to the storms. Approximately 5.5MW of load was lost for 998 minutes until the Murraytown-Barcota 33kV line was re-instated. This event however is being classified as Force Nejagure and is expected to be excluded from the PI Scheme. | 17/12/2 | 011 20:3 | 37 18/12/2011 | 13:15 | Baroota | 998 | 1 | Force Majeure | Severe storms blew over several towers. |

| | | | | due to the storms. Approximately 3.5MW of load was lost for 998 minutes until the Murraytown-Barcota 38kV line was re-instated. This event however is being classified as Force Majeure and is expected to be excluded from the PI Scheme. | | | | | | | |
|----------------|-----------------------------|---|---|---|--|----------------|-----------------|---------------|------------|-----------|--|
| | | | | | | | | | | | |
| NOTE: | | | | | | | | | | | |
| | | Il events that are proposed for exclu- | | | | | | | | | |
| Each propose | ed exclusion should inclu | ude a description of the event, a description | cription of the impact and quantification | on of the impa ct on the network and performance. The descriptive element | nents should also include reasons for the exclusion request ma | king referen o | e to the "Exclu | usion Defini | itions" wo | arksheet. | |
| Each exclusion | on should be entered on | to one row for each parameter. Whe | ere one exclusion event applies to more | ore than one paramete r, the relevant details of the event should be enter | red under each of the measure headings. | | | | | | |
| The TNSP m | ust provide details for all | events requested for exclusion in th | nis template. In the event that the TNS | SP wishes to p rovide further details of an exclusion, this should be pro- | vided with the TNSP's performance report. The source of inform | mation s hould | be referenced | d in this ten | mplate. | | |
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ElectraNet - S1 - Total transmission circuit availability

| Performance Targets | Graph start | Collar | Target | Сар | Graph end |
|---------------------------------|----------------|--------|--------|--------|--------------|
| al transmission circuit availat | | 99.10% | 99.47% | 99.63% | 99.80% |
| Weighting | | -0.30% | 0.00% | 0.30% | 0.30% |

| Performance Formulae | | | Forn | nulae | | | | | Conditions | | | S- Calc 1 | S- Calc 2 |
|----------------------|---|-----------|------|--------------|---|-----------|--------|---|--------------|---|--------|-----------|-----------|
| Performance | = | -0.003000 | | | | | | | Availability | < | 99.10% | -0.003000 | -0.003000 |
| | = | 0.810811 | х | Availability | + | -0.806514 | 99.10% | ≤ | Availability | ≤ | 99.47% | -0.003730 | 0.000889 |
| | = | 1.875000 | х | Availability | + | -1.865063 | 99.47% | ≤ | Availability | ≤ | 99.63% | -0.008625 | 0.002057 |
| | = | 0.003000 | | | | | 99.63% | < | Availability | | | 0.003000 | 0.003000 |

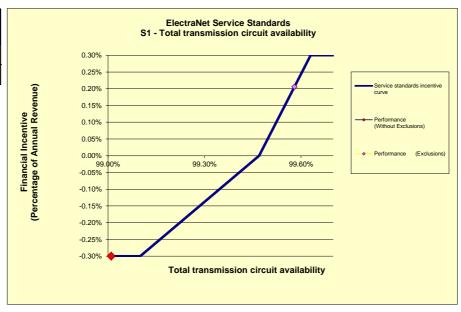
| Performance Outcomes | Performance (Without Exclusions) | Performance (Exclusions) |
|-----------------------------------|--|-----------------------------|
| al transmission circuit availat = | 99.010000% | 99.579682% |
| S-Factor = | -0.300000% | 0.205654% |

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

Blue cells show the TNSP's performance targets and weightings

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

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



ElectraNet - S2 - Critical circuit availability - peak

| Performance Targets | Graph start | Collar | Target | Cap | Graph end |
|------------------------------------|----------------|--------|--------|--------|--------------|
| ritical circuit availability - pea | | 98.52% | 99.24% | 99.51% | 99.70% |
| Weighting | | -0.20% | 0.00% | 0.20% | 0.20% |

| Performance Formulae | | | For | mulae | | | | | Conditions | | | S- Calc 1 | S- Calc 2 |
|----------------------|---|-----------|-----|--------------|---|-----------|--------|---|--------------|---|--------|-----------|-----------|
| Performance | = | -0.002000 | | | | | When: | | Availability | < | 98.52% | -0.002000 | -0.002000 |
| | = | 0.277778 | х | Availability | + | -0.275667 | 98.52% | ≤ | Availability | ≤ | 99.24% | -0.004000 | -0.001545 |
| | = | 0.740741 | х | Availability | + | -0.735111 | 99.24% | ≤ | Availability | ≤ | 99.51% | -0.010667 | -0.004120 |
| | = | 0.002000 | | | | | 99.51% | < | Availability | | | 0.002000 | 0.002000 |

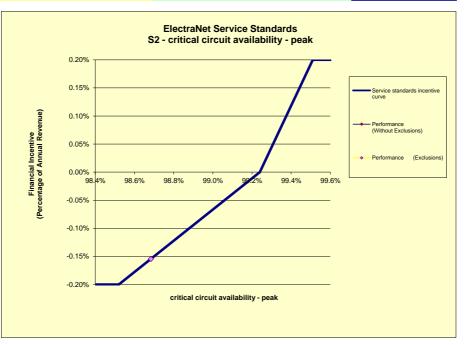
| Performance Outcomes | Performance (Without Exclusions) | Performance (Exclusions) | | |
|--------------------------------------|--|-----------------------------|--|--|
| ritical circuit availability – pea = | 97.800000% | 98.683852% | | |
| S-Factor = | -0.200000% | -0.154485% | | |

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

Blue cells show the TNSP's performance targets and weightings

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

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



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

| Performance Targets | Graph start | Collar | Target | Cap | Graph end |
|------------------------------------|----------------|--------|--------|--------|--------------|
| cuit availability - non-peak (zero | | 98.88% | 99.62% | 99.95% | 100.20% |
| Weighting | | 0.00% | 0.00% | 0.00% | 0.00% |

| Performance Formulae | | | Form | nulae | | | | | Conditions | | | S- Calc 1 | S- Calc 2 |
|----------------------|---|----------|------|--------------|---|----------|--------|---|--------------|---|--------|-----------|-----------|
| Performance | = | 0.000000 | | | | | When: | | Availability | < | 98.88% | 0.000000 | 0.000000 |
| | = | 0.000000 | x | Availability | + | 0.000000 | 98.88% | ≤ | Availability | ≤ | 99.62% | 0.000000 | 0.000000 |
| | = | 0.000000 | х | Availability | + | 0.000000 | 99.62% | ≤ | Availability | ≤ | 99.95% | 0.000000 | 0.000000 |
| | = | 0.000000 | | | | | 99.95% | < | Availability | | | 0.000000 | 0.000000 |

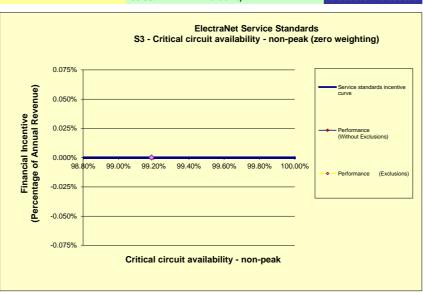
| Performance Outcomes | Performance (Without Exclusions) | Performance (Exclusions) | | |
|--------------------------------------|--|-----------------------------|--|--|
| cuit availability – non-peak (zero = | 98.000872% | 99.187752% | | |
| S-Factor = | 0.000000% | 0.000000% | | |

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

Blue cells show the TNSPt's performance targets and weightings

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

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



ElectraNet - \$4 - 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) | | 11 | 8 | 6 | - |
| Weighting | | -0.100% | 0.00% | 0.100% | 0.10% |

| Performance Formulae | | | Form | nulae | | | | Conditions | | S- Calc 1 | S- Calc 2 |
|----------------------|---|-----------|------|---------------|---|----------|------|-----------------|----|-----------|-----------|
| Performance | = | -0.001000 | | | | | 11 < | No. of events | | -0.001000 | -0.001000 |
| | = | -0.000333 | х | No. of events | + | 0.002667 | 8 ≤ | No. of events ≤ | 11 | -0.000667 | 0.000333 |
| | = | -0.000500 | х | No. of events | + | 0.004000 | 6 ≤ | No. of events ≤ | 8 | -0.001000 | 0.000500 |
| | = | 0.001000 | | | | | | No. of events < | 6 | 0.001000 | 0.001000 |

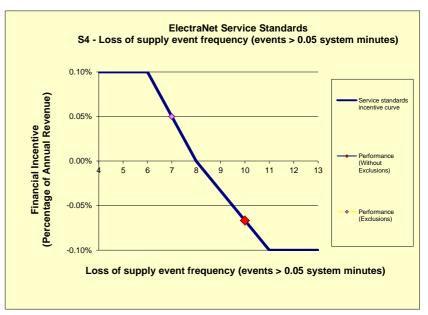
| Loss of supply event frequency (>0.05 system minutes) = | Performance (Without Exclusions) | Performance (Exclusions) |
|---|--|-----------------------------|
| Loss of supply event frequency (>0.05 system minutes) = | 10 | 7 |
| S-Factor | -0.066667% | 0.050000% |

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

Blue cells show the TNSP's performance targets and weightings

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

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



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

| Performance Targets | Graph start | Collar | Target | Cap | Graph end |
|--|-------------|---------|--------|--------|-----------|
| Loss of supply event frequency (>0.2 system minutes) | | 6 | 4 | 2 | 0 |
| Weighting | -0.20% | -0.200% | 0.00% | 0.200% | 0.20% |

| Pe | erformance Formulae | | Formulae | | | | | | Conditions | S- Calc 1 | S- Calc 2 |
|----|---------------------|---|-----------|---|---------------|---|----------|---|---------------------|-----------|-----------|
| | Performance | = | -0.002000 | | | | | 6 | < No. of events | -0.002000 | -0.002000 |
| | | = | -0.001000 | х | No. of events | + | 0.004000 | 4 | ≤ No. of events ≤ 6 | 0.000000 | 0.003000 |
| | | = | -0.001000 | х | No. of events | + | 0.004000 | 2 | ≤ No. of events ≤ 4 | 0.000000 | 0.003000 |
| | | = | 0.002000 | | | | | | No. of events = 2 | 0.002000 | 0.002000 |

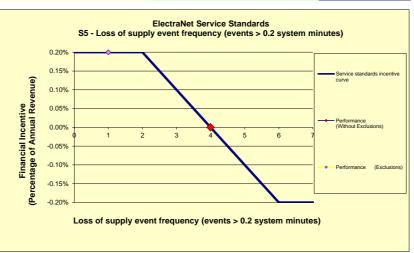
| Loss of supply event frequency (>0.2 system minutes) | = | Performance (Without Exclusions) | Performance (Exclusions) |
|--|---|--|-----------------------------|
| Loss of supply event frequency (>0.2 system minutes) | = | 4 | 1 |
| S-Factor | | 0.000000% | 0.200000% |

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

Blue cells show the TNSP's performance targets and weightings

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

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



ElectraNet - S6 - Average outage duration (minutes)

| Performance Targets | Graph start | Collar | Target | Сар | Graph end |
|-----------------------------------|-------------|---------|--------|--------|-----------|
| Average outage duration (minutes) | | 119 | 78 | 38 | - |
| Weighting | | -0.200% | 0.00% | 0.200% | 0.20% |

| Performance Formulae | | | Fo | rmulae | | | | | Conditions | | | S- Calc 1 | S- Calc 2 |
|----------------------|---|-----------|----|----------|---|----------|-----|---|------------|---|-----|-----------|-----------|
| Performance | = | -0.002000 | | | | | 119 | < | Duration | | | -0.002000 | -0.002000 |
| | = | -0.000049 | x | Duration | + | 0.003805 | 78 | ≤ | Duration | ≤ | 119 | -0.030591 | -0.008696 |
| | = | -0.000050 | х | Duration | + | 0.003900 | 38 | ≤ | Duration | ≤ | 78 | -0.031356 | -0.008913 |
| | = | 0.002000 | | | | | | | Duration | < | 38 | 0.002000 | 0.002000 |

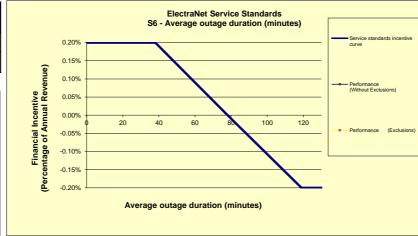
| Average outage duration (minutes) = | = | Performance (Without Exclusions) | Performance (Exclusions) |
|-------------------------------------|---|--|-----------------------------|
| Average outage duration (minutes) | = | 705.115385 | 256.263158 |
| S-Factor | | -0.200000% | -0.200000% |

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

Blue cells show the TNSP's performance targets and weightings

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

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



ElectraNet - Revenue Calculation

X-factor from AER final decision

| Revenue cap information | 2008-09 to 2009-10 |
|-------------------------------------|--------------------|
| Base year allowed revenue (2008-09) | \$229,990,000 |
| Base year | 2008–09 |
| X-factor | -5.93% |
| Commencement of regulatory period | 01-Jul-08 |

X-factor after approval of Munno Para contingent project

| Revenue cap information | 2010-11 to 2012-13 |
|-------------------------------------|--------------------|
| Base year allowed revenue (2010-11) | \$272,077,206 |
| Base year | 2010-11 |
| X-factor | -5.95% |
| Commencement of regulatory period | 01-Jul-08 |

| Annual revenue adjusted for CPI | Mar-08 | Mar-09 | Mar-10 | Mar-11 | Mar-12 | Mar-13 |
|---------------------------------|--------|--------|--------|--------|--------|--------|
| СРІ | 162.2 | 166.2 | 171.0 | 176.7 | - | - |

| Nominal annual revenue | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 |
|------------------------|---------------|---------------|---------------|---------------|---------|
| Allowed Revenue | \$229,990,000 | \$249,636,506 | \$272,128,575 | \$297,930,899 | |

| Calendar year revenue | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|-----------------------|---------------|---------------|---------------|---------------|------|------|
| Revenue | \$114,995,000 | \$239,813,253 | \$260,882,540 | \$285,029,737 | | |

NOTE:

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

Grey cells show calendar year revenue

Green cells are for formula

ElectraNet - Performance outcomes

Revenue calendar year

\$285,029,737

| | | Target | Performance without exclusions | | | Perfor | Impact of | | |
|----|---|--------|--------------------------------|------------|-----------------|-------------|------------|-----------------|------------|
| S | Performance parameter | | Performance | S-Factor | Final Incentive | Performance | S-Factor | Final Incentive | exclusions |
| S1 | Total transmission circuit availability | 99.47% | 99.010000% | -0.300000% | -\$855,089 | 99.579682% | 0.205654% | \$586,175 | 0.505654% |
| S2 | Critical circuit availability – peak | 99.24% | 97.800000% | -0.200000% | -\$570,059 | 98.683852% | -0.154485% | -\$440,330 | 0.045515% |
| S3 | Critical circuit availability – non-peak (zero weighting) | 99.62% | 98.000872% | 0.000000% | \$0 | 99.187752% | 0.000000% | \$0 | 0.000000% |
| S4 | Loss of supply event frequency (>0.05 system minutes) | 8 | 10 | -0.066667% | -\$190,020 | 7 | 0.050000% | \$142,515 | 0.116667% |
| S5 | Loss of supply event frequency (>0.2 system minutes) | 4 | 4 | 0.000000% | \$0 | 1 | 0.200000% | \$570,059 | 0.200000% |
| S6 | Average outage duration (minutes) | 78 | 705 | -0.200000% | -\$570,059 | 256 | -0.200000% | -\$570,059 | 0.000000% |
| | | | | | | | | | |
| | TOTALS | | | -0.766667% | -\$2,185,228 | | 0.101169% | \$288,360 | 0.867835% |

NOTE:

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

Grey cell shows relevant calendar year revenue

Green cells show performance measure targets

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

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

Blue cells show the impact of exclusions on revenue

| Aggregate outcome | |
|--|-----------|
| S-factor | 0.101169% |
| Financial Incentive | \$288,360 |
| Financial year affected by financial incentive | 2012/13 |

| Defined exclusions | | |
|--|--|---|
| | | Reference |
| Unregulated transmission assets | | Appendix C Revenue cap deci |
| 3rd party outages | Any outages shown to be caused by a 'third party system'—eg. intertrip signals, generator outage, customer installation, customer request or AEMO direction. | Appendix C Revenue cap deci |
| Outages to control voltages | | Appendix C Revenue cap deci |
| | cases only where the element is available for immediate energisation if required). | |
| Circuit opening for operational purposes | | Appendix C Revenue cap deci |
| Capped outages | The number of interrupted hours related to a single transmission line redevelopment project or substation redevelopment project is capped at 336 hours (14 days). | Appendix C Revenue cap deci |
| Force majeure | | Appendix D First proposed ST |
| Parameter 2 - Critical circuit availability – peal | | |
| Defined exclusions | | Reference |
| Unregulated transmission assets | | Appendix C Revenue cap deci |
| 3rd party outages | Any outages shown to be caused by a 'third party system'—eg. intertrip signals, generator outage, customer installation, customer request or AEMO direction. | Appendix C Revenue cap deci |
| Outages to control voltages | Outages to control voltages within required limits, both as directed by AEMO and where AEMO does not have direct oversight of the network (in both cases only where the element is available for immediate eneroisation if required). | Appendix C Revenue cap deci |
| Circuit opening for operational purposes | The opening of only one end of a transmission line where the transmission line remains energised and available to carry power. | Appendix C Revenue cap deci |
| Capped outages | the number of interrupted hours related to a single transmission line redevelopment project or substation redevelopment project is capped at 336 hours | Appendix C Revenue cap deci |
| Force majeure | (14 days). | Appendix D First proposed ST |
| | | - FF Six D 1 II OI Proposed 01 |
| Parameter 3 - Loss of supply event frequency (>0.2 system minutes) | | |
| Defined exclusions | Further description of exclusion | Reference |
| Successful reclose events (<1 min duration) | | Appendix C Revenue cap deci |
| Unregulated transmission assets | | Appendix C Revenue cap deci |
| 3rd party outages | Any outages shown to be caused by a 'third party system'—e.g. intertrip signals, generator outage, customer installation, customer request or AEMO | Appendix C Revenue cap deci |
| | direction. | |
| Planned outages | | Appendix C Revenue cap deci |
| Interconnector outages | automatic under-frequency load shedding, but to exclude the impact of any market failure to respond and restore load within required timeframes (ie. | Appendix C Revenue cap deci |
| Pumping station supply interruptions | excluding factors outside of ElectraNet's control). Pumping station supply interruptions were excluded from historical data due to the highly irregular nature of these loads, which makes accurate | Appendix C Revenue cap deci |
| rumping station supply interruptions | estimation of load profiles unreliable. | Appendix C Revenue cap deci |
| Force majeure | | Appendix D First proposed ST |
| | | Appendix C Revenue cap deci |
| of third party protection | protection not operated is removed from the total lost load. | |
| ElectraNet protection operates correctly due to a | Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded. | Appendix C Revenue cap deci |
| fault on a third party system | | |
| Parameter 4 - Loss of supply event | | |
| frequency (>1.0 system minutes) Defined exclusions | Further description of exclusion | Reference |
| Successful reclose events (<1 min duration) | | Appendix C Revenue cap deci |
| Unregulated transmission assets | | Appendix C Revenue cap deci |
| 3rd party outages | | Appendix C Revenue cap deci |
| | direction. | .,,, |
| Planned outages | | Appendix C Revenue cap deci |
| Interconnector outages | For supply outages resulting from an interconnector outage, the period of the interruption is capped at half an hour. This is done to include the impact of | Appendix C Revenue cap deci |
| | automatic under-frequency load shedding, but to exclude the impact of any market failure to respond and restore load within required timeframes (ie. excluding factors outside of ElectraNet's control). | |
| Pumping station supply interruptions | Pumping station supply interruptions were excluded from historical data due to the highly irregular nature of these loads, which makes accurate | Appendix C Revenue cap deci |
| Fares maining | estimation of load profiles unreliable. | Annuario D First annuario 107 |
| Force majeure ElectraNet protection operates incorrectly ahead | | Appendix D First proposed ST Appendix C Revenue cap deci |
| | where Electrainet protection operates incorrectly anead of third party protection, the portion of customer load that would have been lost had Electrainet protection not operated is removed from the total lost load. | Appendix C Revenue cap deci |
| of third party protection | protection not operated is removed from the total lost load. | |
| ElectraNet protection operates correctly due to a | | Appendix C Revenue cap deci |
| ElectraNet protection operates correctly due to a fault on a third party system | | Appendix C Revenue cap deci |
| ElectraNet protection operates correctly due to a fault on a third party system Parameter 5 - Average outage duration | Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded. | |
| ElectraNet protection operates correctly due to a fault on a third party system Parameter 5 - Average outage duration Defined exclusions | Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded. Further description of exclusion | Appendix C Revenue cap deci |
| ElectraNet protection operates correctly due to a fault on a third party system Parameter 5 - Average outage duration Defined exclusions Successful reclose events (<1 min duration) | Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded. Further description of exclusion | Reference Appendix C Revenue cap deci |
| ElectraNet protection operates correctly due to a fault on a third party system Parameter 5 - Average outage duration Defined exclusions Successful reclose events (<1 min duration) Unregulated transmission assets | Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded. Further description of exclusion | Reference Appendix C Revenue cap deci Appendix C Revenue cap deci |
| ElectraNet protection operates correctly due to a fault on a third party system Parameter 5 - Average outage duration Defined exclusions Successful reclose events (<1 min duration) Unregulated transmission assets | Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded. Further description of exclusion any outages shown to be caused by a 'third party system'—eg intertrip signals, generator outage, customer installation, customer request or AEMO | Reference Appendix C Revenue cap deci Appendix C Revenue cap deci |
| ElectraNet protection operates correctly due to a fault on a third party system Parameter 5 - Average outage duration Defined exclusions Successful reclose events (< 1 min duration) Unregulated transmission assets 3rd party outages | Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded. Further description of exclusion any outages shown to be caused by a "third party system"—eg intertrip signals, generator outage, customer installation, customer request or AEMO direction | Reference Appendix C Revenue cap deci Appendix C Revenue cap deci Appendix C Revenue cap deci |
| ElectraNet protection operates correctly due to a fault on a third party system Parameter 5 - Average outage duration Defined exclusions Successful reclose events (<1 min duration) Unregulated transmission assets 3rd party outages Planned outages | Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded. Further description of exclusion any outages shown to be caused by a 'third party system'—eg intertrip signals, generator outage, customer installation, customer request or AEMO direction For supply outages resulting from an interconnector outage, the duration is capped at half an hour. This is done to include the impact of automatic | Reference Appendix C Revenue cap deci |
| ElectraNet protection operates correctly due to a fault on a third party system Parameter 5 - Average outage duration Defined exclusions Successful reclose events (<1 min duration) Unregulated transmission assets 3rd party outages Planned outages | Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded. Further description of exclusion any outages shown to be caused by a 'third party system'—eg intertrip signals, generator outage, customer installation, customer request or AEMO direction For supply outages resulting from an interconnector outage, the duration is capped at half an hour. This is done to include the impact of automatic under-frequency load shedding, but to exclude the impact of any market failure to respond and restore load within required timeframes (i.e. excluding factors outside of ElectraNet's control). | Reference Appendix C Revenue cap deci |
| ElectraNet protection operates correctly due to a fault on a third party system Parameter 5 - Average outage duration | Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded. Further description of exclusion any outages shown to be caused by a 'third party system'—eg intertrip signals, generator outage, customer installation, customer request or AEMO direction For supply outages resulting from an interconnector outage, the duration is capped at half an hour. This is done to include the impact of automatic under-frequency load shedding, but to exclude the impact of any market failure to respond and restore load within required timeframes (i.e. excluding factors outside of ElectraNet's control). | Reference Appendix C Revenue cap dec Appendix C Revenue cap deci |
| Electrable protection operates correctly due to a fault on a third party system Parameter 5 - Average outage duration Defined exclusions Successful reclose events (<1 min duration) Unregulated transmission assets 3rd party outages Planned outages Interconnector outages supply interruptions Force majeure | Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded. Further description of exclusion any outages shown to be caused by a 'third party system'—eg intertrip signals, generator outage, customer installation, customer request or AEMO direction For supply outages resulting from an interconnector outage, the duration is capped at half an hour. This is done to include the impact of automatic under-frequency load shedding, but to exclude the impact of any market failure to respond and restore load within required timeframes (i.e. excluding factors outside of ElectraNet's control). | Reference Appendix C Revenue cap deci |

| No. Critical circuit availability - non-peak (zero | | |
|--|---|---------------------------------|
| weighting) | | |
| Defined exclusions | Further description of exclusion | Reference |
| 6.1 Unregulated transmission assets | | Appendix C Revenue cap decision |
| 6.2 3rd party outages | Any outages shown to be caused by a 'third party system'—eg intertrip signals, generator outage, customer installation, customer request or AEMO direction. | Appendix C Revenue cap decision |
| 6.3 Outages to control voltages | Outages to control voltages within required limits, both as directed by AEMO and where AEMO does not have direct oversight of the network (in both cases only where the element is available for immediate energisation if required). | Appendix C Revenue cap decision |
| 6.4 Circuit opening for operational purposes | | Appendix C Revenue cap decision |
| 6.5 Capped outages | The number of interrupted hours related to a single transmission line redevelopment project or substation redevelopment project is capped at 336 hours (14 days). | Appendix C Revenue cap decision |
| 6.6 Force majeure | | Appendix D First proposed STPIS |

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 combination of events, acts and circumstances which (despite the observance of good electricity industry practice) is beyond the reasonable control of the part affected by any such event, which may include, without limitation, the following: | Service Target Performance Incentive Scheme (January 2007) p. 31 |
| 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 | |
| n 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? | |
| | |
| | |
| | |
| | |
| | |

ATTACHMENT 2 – AER PROFORMA FOR CALCULATION OF S FACTOR AND INCENTIVE MARKET IMPACT PARAMAETER

EXCEL TEMPLATE EXPLANATION



This reporting template is for each TNSP to report its service performance against the market impact parameter of the service target performance incentive scheme.

It only applies to the TNSP for the calendar year set out in the Input Performance worksheet of the TNSPs current regulatory period. The TNSP will need to submit raw data in a clear layout for validation (either in database or csv).

DATABASE TEMPLATE EXPLANATION

Below is an example of a database table format suitable for verification by the AER.

The table lists ALL binding constraints that are used to manage TNSP's XYZ equipment on a 5 minute resolution. The TNSP is able to enter the exc lusion clause number in the 'EXCLUSION CLAUSE' field and provide comment. If the outage should be included in the benchmark, the TNSP simply leave the exclusion field blank.

NOTE: All dispatch intervals with a marginal value greater than \$10/MWh, classified as an OUTAGE and has no exlusion clause e ntered, will be used to calculate the TNSP's Market Impact Parameter.

DATABASE NAME: TNSP XYZ

TABLE NAME: TNSP XYZ Service Performance data

DATA:

| SOURCE | SETTLEMENTDATE | CONSTRAINTID | EQUIPMENTNAME | EFFECTIVEDATE | VERSIONNO VALUE | | AL CLASSIFICATION CLAUSE | | .USIO N | COMMENTS |
|----------|--------------------|--------------|----------------------|---------------|--------------------|------|-----------------------------|-----|------------|-------------------------------------|
| TNSP XYZ | 1/01/2007 12:30 PM | X>X-22_LK 1 | LINE 22 | 1/01/2007 | 1 | 12 | OUTAGE | - | | |
| TNSP XYZ | 1/01/2008 12:35 PM | X>X-NIL_RU | | 1/01/2006 | 2 | 120 | SYSTEM NORMAL | | | |
| TNSP XYZ | 1/01/2008 12:35 PM | X>>X-54 | LINE 54 | 1/01/2004 | 1 | 200 | OUTAGE | 6 L | ine out of | service to provide greater network |
| capacity | | | | | | | | | | |
| TNSP XYZ | 1/01/2008 12:55 PM | X>X_NSA_01 | LINE 33 | 1/02/2004 | 1 | 5000 | OUTAGE | 7 1 | Network St | upport constraint |
| TNSP XYZ | 1/01/2007 12:30 PM | X>Y-22_LK 1 | LINE 22 | 1/01/2007 | 1 | 12 | OUTAGE | 7 | TNSP YYY | is also responsible for this outage |
| | | | | | | | | | | |

ElectraNet - SERVICE STANDARDS PERFORMANCE SUMMARY

| | SERVICE TARGET PERFORMANCE INCENTIVE SCHEME DATA | | | | | | | | | | | |
|-------|--|---|--|--|-------------------------------------|---|--|--|--|--|--|--|
| Year | Month | Market impact parameter count (DI) (without exclusions) | Market impact parameter count (DI) (with exclusions) | Non-market impact parameter count (DI) | Market impact paramters (Hrs) | Non-market impact paramters (Hrs) | | | | | | |
| 2011 | January | 1917 | 88 | 59151 | 7.33 | 4929.25 | | | | | | |
| | February | 2574 | 49 | 54015 | 4.08 | 4501.25 | | | | | | |
| | March | 1087 | 60 | 64954 | 5.00 | 5412.83 | | | | | | |
| | April | 84 | 5 | 62382 | 0.42 | 5198.50 | | | | | | |
| | May | 633 | 122 | 60480 | 10.17 | 5040.00 | | | | | | |
| | June | 1067 | 65 | 58353 | 5.42 | 4862.75 | | | | | | |
| | July | 2406 | 201 | 61885 | 16.75 | 5157.08 | | | | | | |
| | August | 1011 | 18 | 60000 | 1.50 | 5000.00 | | | | | | |
| | September | 1225 | 224 | 60851 | 18.67 | 5070.92 | | | | | | |
| | October | 2192 | 385 | 65221 | 32.08 | 5435.08 | | | | | | |
| | November | 1182 | 73 | 60255 | 6.08 | 5021.25 | | | | | | |
| | December | 555 | 72 | 61084 | 6.00 | 5090.33 | | | | | | |
| Total | | 15933 | 1362 | 728631 | 113.50 | 60719.25 | | | | | | |

NOTES:

Yellow cells - Enter market impact parameter performance data

Note: Performance is measured on a calendar year basis.

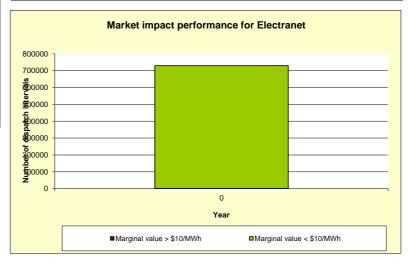
| TNSP: ElectraNet STPIS version: January, 2007 Regulatory Determinatio | |
|---|------|
| version: January, 2007 Regulatory | |
| Regulatory | |
| | |
| | |
| 2010 | |
| n 2008/09 - 2012/13 | ; |
| Base Year | |
| Allowed | |
| Revenue \$ 229,990,0 | 000 |
| Base Year 2008- | -09 |
| X-factor -5.9 | 93% |
| Commence | |
| ment of | |
| regulatory | |
| year 01-Ju | I OO |

| Other inp | uts |
|-------------------|---------|
| Assessment Period | 2011 |
| Financial year to | |
| affect revenue: | 2011/12 |
| Date prepared: | |
| Revision date: | |
| Target | 1862 |

| | Other Inputs | | | | | | | | |
|--------------|--------------|--------|--------|--------|--------|--------|--|--|--|
| Annual reven | Mar-08 | Mar-09 | Mar-10 | Mar-11 | Mar-12 | Mar-13 | | | |
| CPI | 162.2 | 166.2 | 171.0 | 176.7 | | | | | |

Summary

| Date | Marginal value > \$10/MWh | Marginal value < \$10/MWh | Market impact paramters (Hrs) | Non-market impact paramters (Hrs) |
|------|------------------------------|------------------------------|-------------------------------|--------------------------------------|
| 0 | 1362 | 728631 | 113.50 | 60719.25 |



ElectraNet - Market Impact parameter s-factor

| Performance Targets | Graph start | Target | Сар | Graph end |
|-------------------------|-------------|--------|-------|-----------|
| market impact parameter | | 1862 | 0 | 0 |
| Parameter weighting | | 0.00% | 2.00% | 2.00% |

| Performance Formulae | | | | Formulae | | | | Conditions | S- Calc 1 | S- Calc 2 |
|----------------------|---|-----------|---|--------------------------|---|----------|------|---------------------------|---------------|-----------|
| Performance | = | 0.000000 | | | | When: | 1862 | < No of dipatch intervals | 0.000000 | 0.000000 |
| | = | -0.000011 | x | no of dispatch intervals | + | 0.020000 | 1862 | ≤ No of dipatch intervals | < 0 -0.151139 | 0.005371 |
| | = | 0.020000 | | | | | | No of dipatch intervals | = 0 0.020000 | 0.020000 |

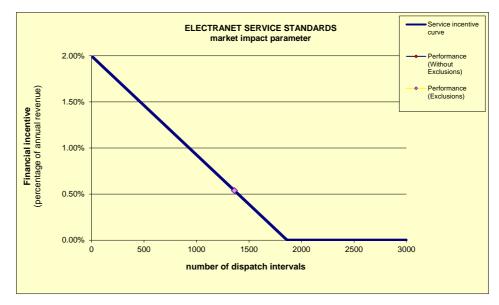
| Performance Outcomes | | Performance (Without Exclusions) | Performance (Exclusions) |
|------------------------------|---|-------------------------------------|-----------------------------|
| number of dispatch intervals | = | 15933 | 1362 |
| S-Factor | = | 0.0000% | 0.5371% |

NOTES:

Blue cells show Transgrid's performance target and maximum financial incentive.

Yellow/Green cells show Transgrid's performance formula and related formula conditions based on performance targets and the maximum financial incentive

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



ElectraNet - Revenue calculation

X-factor from AER final decision

| Revenue cap information | 2008-09 to 2009-10 |
|-----------------------------------|-----------------------|
| Base revenue | \$229,990,000 |
| Base year | 2008–09 |
| X-factor | -5.93% |
| Commencement of regulatory period | 01-Jul-08 |

X-factor after approval of Munno Para contingent project

| Revenue cap information | 2010-11 to 2012-13 |
|-------------------------------------|-----------------------|
| Base year allowed revenue (2010-11) | \$272,077,206 |
| Base year | 2010-11 |
| X-factor | -5.95% |
| Commencement of regulatory period | 01-Jul-08 |

| Annual revenue adjusted for CPI | Mar-08 | Mar-09 | Mar-10 | Mar-11 | Mar-12 | Mar-13 |
|---------------------------------|--------|--------|--------|--------|--------|--------|
| CPI | 162.2 | 166.2 | 171.0 | 176.7 | - | ı |

| | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 |
|----|---------------|---------------|---------------|---------------|---------|
| AR | \$229,990,000 | \$249,636,506 | \$272,128,575 | \$297,930,899 | |

| Calendar year revenue | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|-----------------------|---------------|---------------|---------------|---------------|------|------|
| Revenue | \$114,995,000 | \$239,813,253 | \$260,882,540 | \$285,029,737 | | |

NOTES:

Grey cells show calendar year revenue

Green cells are for formula

ElectraNet - Market impact parameter performance outcomes

Revenue calendar year

\$285,029,737

| Porformanco narameter | Target (six | Performanc | e without exc | lusions | Perf | Impact of | | |
|-------------------------|-------------|-------------|---------------|-----------------|-------------|-----------|-----------------|------------|
| Performance parameter | months) | Performance | S-Factor | Final Incentive | Performance | S-Factor | Final Incentive | exclusions |
| Market impact parameter | 1,862 | 15933 | 0.000000% | \$0 | 1362 | 0.537057% | \$1,530,772 | 0.537057% |

NOTE:

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

Grey cell shows relevant calendar year revenue

Green cells show performance targets

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

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

Blue cells show the impact of exclusions on revenue

| Aggregate outcome | |
|-----------------------------------|-------------|
| S-factor | 0.537057% |
| Bonus for market impact parameter | \$1,530,772 |
| Financial year to affect revenue | 2011/12 |

Exclusions for Service Target Perfomance Incentive Scheme

| Exclusion | Defined Exclusion | Further description | Reference |
|----------------------------------|--------------------------------------|---|--|
| Number | | | |
| 1 | Force majeure | 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 (March 2008) p. 51 |
| 2 | Credible contingency events | Any network constraints that are invoked to manage the reclassification of non-credible contingency events to credible contingency events as per clause 4.2.3 (f) of the NER | Service Target Performance Incentive Scheme (March 2008) p. 46 |
| 3 | 3rd party outage | Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage, customer installation | Service Target Performance Incentive Scheme (March 2008) p. 46 |
| 4 | Non-prescribed transmission services | Any outages on assets that are not providing prescribed transmission services | Service Target Performance Incentive Scheme (March 2008) p. 46 |
| 5 | Safety reasons | Any outages for personal safety that are not related to the activity of owning or operating a transmission network | Service Target Performance Incentive Scheme (March 2008) p. 46 |
| 6 | Operational sercurity | Any outages that are only for the purpose of assisting with operational sercurity, for example where a lower voltage parallel circuit is taken out of service to assist with transfers across an interconnector | Service Target Performance Incentive Scheme (March 2008) p. 46 |
| 7 | Network support services | Any network constraints related to network support services in accordance with clause 5.6.2 of the NER | Service Target Performance Incentive Scheme (March 2008) p. 46 |
| 8 (a) | Others | Dispatch intervals (for a network outage constraint) that are affected by: (a) a manifestly incorrect input to the dispatch algorithm as determined by AEMO under clause 3.9.2B of the NER) | Service Target Performance Incentive Scheme (March 2008) p. 46 |
| 8 (b) | | (b) a constraint applied by AEMO that does not accurately reflect or is otherwise inconsistent with that network capability that the TNSP advised AEMO | |
| 8 (c) 8 (d) 8 (e) 8 (f) | | (c) a scheduling error (d) mandatory restrictions under clause 3.12A if the NER (e) AEMO declaring the spot market suspended under clause 3.14.3 of the NER, or (f) an administered price cap under clause 3.14.2 of the NER | |

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 combination of events, acts and circumstances which (despite the observance of good electricity industry practice) is beyond the reasonable control of the part affected by any such event, which may include, without limitation, the following: | Service Target Performance Incentive Scheme (March 2008) p. 51 |
| - 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? | |
| | |
| | |
| | |
| | |

| Month | Marginal Value > \$0 (DI) | | Marginal Value > \$10 (DI) | Inclusion (| Count (DI) | Exclusio (D | | | Impact ers (Hrs) | Inclusion (Hr | | Excluded (Hrs | | OUTAG | E EXCLUS | IONS | MITC CHEC | KED DIs | | |
|----------|---------------------------------|-----------|----------------------------------|-------------|------------------|----------------|-----------------------|-----|---------------------|------------------|------------------|------------------|------------------------------|-------|--------------------|------|------------------|----------------------|---|---------------|
| 2011-01 | 61068 | 59151 | 1917 | 88 | | | 1829 | | 6.66 | | 0.31 | | 6.35 | | | 26 | 5 | 1917 | | |
| 2011-02 | 56589 | 54015 | 2574 | 49 | | | 2525 | | 8.94 | | 0.17 | | 8.77 | | | 60 | | 2574 | | |
| 2011-03 | 66041 | 64954 | 1087 | 60 | | | 1027 | | 3.77 | | 0.21 | | 3.57 | | | 35 | 2 | 1087 | | |
| 2011-04 | 62466 | 62382 | 84 | 5 | | | 79 | | 0.29 | | 0.02 | | 0.27 | | | 1: | 2 | 84 | | |
| 2011-05 | 61113 | 60480 | 633 | 122 | | | 511 | | 2.2 | | 0.42 | | 1.77 | | | 14 | 7 | 633 | | |
| 2011-06 | 59420 | 58353 | 1067 | 65 | | | 1002 | | 3.7 | | 0.23 | | 3.48 | | | 20 | I | 1067 | | |
| 2011-07 | 64291 | 61885 | 2406 | 201 | | | 2205 | | 8.35 | | 0.7 | | 7.66 | | | 33 | I | 2406 | | |
| 2011-08 | 61011 | 60000 | 1011 | 18 | | | 993 | | 3.51 | | 0.06 | | 3.45 | | | 20 | 5 | 1011 | | |
| 2011-09 | 62076 | 60851 | 1225 | 224 | | | 1001 | | 4.25 | | 0.78 | | 3.48 | | | 20- | 1 | 1225 | | |
| 2011-10 | 67413 | 65221 | 2192 | 385 | | | 1807 | | 7.61 | | 1.34 | | 6.27 | | | 112 | 9 | 2192 | | |
| 2011-11 | 61437 | 60255 | 1182 | 73 | | | 1109 | | 4.1 | | 0.25 | | 3.85 | | | 9 | | 1182 | | |
| 2011-12 | 61639 | 61084 | 555 | 72 | | | 483 | | 1.93 | | 0.25 | | 1.68 | | | 14 | 9 | 555 | | |
| Total | 744564 | | 15933 | | 1362 | | 14571 | | 55.31 | | 4.74 | | 50.6 | | | 369 | 1 | 15933 | | |
| Cons | traint ID | Constr | aint Descr | iption | Marginal V (D | - | Marginal V \$10 (D | | Inclusion Co | unt (DI) | Exclusion (DI | | Market Impa Parameters (H | | Inclusion Count | | ed Count Irs) | OUTAGE EXCLUSIONS | С | MITC HECKE |
| | | | | | | | | | | | | | | | (Hrs) | | | | | D DIs |
| #NPS2_E | | SNPA2.EN | ERGY * 1 < | = 180 (Wt | | 35 | | 35 | | 0 | | 35 | | 0.12 | 0 | | 0.12 | | 0 | 35 |
| #NPS2_E | | SNPA2.EN | ERGY * 1 < | = 273 (Wt | | 79 | | 79 | | 0 | | 79 | | 0.27 | 0 | | 0.27 | | 0 | 79 |
| #POR01_ | _E | SPLN1.ENI | ERGY * 1 < | = 0 (Wt = | | 134 | | 134 | | 0 | | 134 | | 0.47 | 0 | | 0.47 | | 0 | 134 |
| | 4_001_RAM | | | | | 4 | | 2 | | 0 | | 2 | | 0.01 | 0 | | 0.01 | | 0 | 2 |
| | 4_002_RAM | | | | | 11 | | 8 | | 0 | | 8 | | 0.03 | 0 | | 0.03 | | 0 | 8 |
| | 4_002_RAM | | | | | 2 | | 0 | | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 |
| | 9_002_RAM | | 0 | | | 1 | | 1 | | 0 | | 1 | | 0 | 0 | | 0 | | 0 | 1 |
| | 9_004_RAM | | 0 | | | 7 | | 7 | | 0 | | 7 | | 0.02 | 0 | | 0.02 | | 0 | 7 |
| | 9_004_RAM | | | | | 1 | | 1 | | 0 | | 1 | | 0 | 0 | | 0 | | 0 | 1 |
| | 3_002_RAM | • | | | | 3 | | 3 | | 0 | | 3 | | 0.01 | 0 | | 0.01 | | 0 | 3 |
| | 3_004_RAM | | | | | 2 | | 2 | | 0 | | 2 | | 0.01 | 0 | | 0.01 | | 0 | 2 |
| | 3_004_RAM | | | | | 4 | | 3 | | 0 | | 3 | | 0.01 | 0 | | 0.01 | | 0 | 3 |
| | 6_007_RAM | | | | | 1 | | 0 | | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 |
| | 6_007_RAM | | | | | 3 | | 0 | | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 |
| | 6_015_RAM | | | | | 1 | | 0 | | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 |
| | 8_017_RAM | | U | | | 8 | | 5 | | 0 | | 5 | | 0.02 | 0 | | 0.02 | | 0 | 5 |
| | 8_017_RAM | | | | | 2 | | 0 | | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 |
| | 9_012_RAM | | | | | 2 | | 0 | | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 |
| | 9_012_RAM | - | - | | | 7 | | 0 | | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 |
| | 1_006_RAM | | | | | 1 | | 0 | | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 |
| | 1_021_RAM | | • | | | 10 | | 10 | | 0 | | 10 | | 0.03 | 0 | | 0.03 | | 0 | 10 |
| | 2_012_RAM | | | | | 5 | | 0 | | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 |
| | 2_012_RAM | | | | | 5 | | 0 | | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 |
| | 2_013_RAM | | | | | 2 | | 0 | | 0 | | 0 | | 0 | 0 | | 0 | | 0 | 0 |
| | 5_001_RAM | | • | | | 12 | | 12 | | 0 | | 12 | | 0.04 | 0 | | 0.04 | | 0 | 12 |
| | 7_001_RAM | | 0 | | | 12 | | 12 | | 0 | | 12 | | 0.04 | 0 | | 0.04 | | 0 | 12 |
| #R004180 | 0_001_RAM | Hard Ramp | ing constra | int for | | 10 | | 10 | | 0 | | 10 | | 0.03 | 0 | | 0.03 | | 0 | 10 |

0.03

0.02

0.01

0.03

0.02

0.01

#R004189_002_RAM Hard Ramping constraint for

#R004189 002 RAM Soft Ramping constraint for

#R004190_017_RAM Hard Ramping constraint for

#R004190_019_RAM Soft Ramping constraint for

#R004195_002_RAM Hard Ramping constraint for

#R004196_002_RAM Hard Ramping constraint for

#R004196_003_RAM Hard Ramping constraint for

#R004196_003_RAM Soft Ramping constraint for

#R004226_021_RAM Hard Ramping constraint for

#R004226_021_RAM Soft Ramping constraint for

#R004258_013_RAM Hard Ramping constraint for

| #R004258_017_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---------------|--------|---|---------|-----------|--------|------|--------|
| #R004258_017_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004258_029_RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004258_029_RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004261_001_RAM Hard Ramping constraint for | 8 | 8 | 0 | 8 | 0.03 | 0 | 0.03 | 0 |
| #R004265_013_RAM Hard Ramping constraint for | 10 8 | 0 8 | 0 | 0 8 | 0 | 0 0 | 0 | 0 |
| #R004265_027_RAM Soft Ramping constraint for | 8 | 8 1 | 0 | 8 | 0.03 0 | 0 | 0.03 | 0 |
| #R004289_015_RAM Hard Ramping constraint for #R004289_015_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004296_006_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004305_007_RAM Hard Ramping constraint for | 7 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| #R004305_007_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004305_008_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004305_008_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004307_018_RAM Hard Ramping constraint for | <u>-</u> 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004307_018_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004307_019_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004310_007_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004310_007_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004314_021_RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | Ö | 0 |
| #R004316_002_RAM Hard Ramping constraint for | 6 | 6 | 0 | 6 | 0.02 | 0 | 0.02 | 0 |
| #R004316_002_RAM Soft Ramping constraint for | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| #R004319_021_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004323_001_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004323_001_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004325_010_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004327_002_RAM Hard Ramping constraint for | 7 | 7 | 0 | 7 | 0.02 | 0 | 0.02 | 0 |
| #R004327_002_RAM Soft Ramping constraint for | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| #R004343_013_RAM Hard Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004343_030_RAM Hard Ramping constraint for | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| #R004343_030_RAM Soft Ramping constraint for | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| #R004344_017_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004362_004_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004390_018_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004390_024_RAM Soft Ramping constraint for | 13 | 13 | 0 | 0 13 | 0 | 0 0 | 0.05 | 0 0 |
| #R004418_001_RAM Hard Ramping constraint for #R004440_006_RAM Soft Ramping constraint for | 13 | 0 | 0 | 0 | 0.05 0 | 0 | 0.05 | 0 |
| #R004440_012_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004440_012_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004440_013_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004453_001_RAM Hard Ramping constraint for | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004453_001_RAM Soft Ramping constraint for | 4 | 0 | Õ | ő | 0 | Ö | 0 | 0 |
| #R004461_012_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004461_012_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004461_013_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004462_012_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004462_012_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004470_006_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004470_007_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004470_012_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004470_012_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004470_013_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004486_004_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004499_002_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004500_012_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004500_013_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004500_013_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004500_014_RAM Soft Ramping constraint for #R004509_017_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #KUU45U9 UT7 KAW HARI KAMDINI CONSTRAINT TOT | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| #R004513_017_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|----------|--------|-----|---|------|-----|------|---|---|
| #R004518_007_RAM Hard Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004518_007_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004518_008_RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004518_013_RAM Soft Ramping constraint for | 1 | • | • | • | - | 0 | • | ŭ | • |
| #R004524_018_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004524_019_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004524_024_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004524_024_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 0 | 0 | 0 | 0 | n o | 0 | 0 | 0 |
| #R004524_025_RAM Soft Ramping constraint for | ! | • | • | • | • | 0 | • | • | • |
| #R004542_007_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004543_007_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004543_007_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004543_008_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004543_019_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| · • | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004545_001_RAM Hard Ramping constraint for | 2 | · · | O . | ₹ | | · · | - | - | - |
| #R004545_001_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004545_002_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004545 002 RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004572_023_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004572_023_RAM Soft Ramping constraint for | • | 0 | • | ŭ | | • | • | • | • |
| #R004572_024_RAM Hard Ramping constraint for | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004572_024_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004574_011_RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004574_011_RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004574_012_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004574_012_RAM Soft Ramping constraint for | • | U | Ü | • | • | • | • | ŭ | • |
| #R004597_006_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004597_007_RAM Hard Ramping constraint for | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004597_007_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004597_008_RAM Hard Ramping constraint for | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004597_008_RAM Soft Ramping constraint for | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 0 | 0 | • | - | 0 | 0 | 0 | 0 |
| #R004598_002_RAM Hard Ramping constraint for | _ | U | Ü | 0 | 0 | • | - | • | • |
| #R004598_002_RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004613_006_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004613 006 RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004613_007_RAM Hard Ramping constraint for | 6 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 | 3 |
| #R004613_007_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | <u> </u> | 0 | 0 | • | • | • | 0 | ŭ | 0 |
| #R004613_008_RAM Soft Ramping constraint for | 1 | Ü | 0 | 0 | 0 | 0 | • | 0 | U |
| #R004613_013_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004613_013_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004618_001_RAM Hard Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004618_001_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004623_010_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | n | 0 | 0 | 0 |
| | _ | 0 | ŭ | • | | 0 | 0 | ŭ | • |
| #R004623_010_RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | U | • | 0 | 0 |
| #R004624_003_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004624_003_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004632 007 RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004632 007 RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 4 |
| #R004632_008_RAM Hard Ramping constraint for | , | 1 | • | 1 | | 0 | - | ŭ | 1 |
| #R004632_008_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | • | 0 | 0 | 0 |
| #R004632_013_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004632_014_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004632 014 RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004666_006_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Ô |
| #R004666_006_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | • | U C | 0 | • | • | · · | • | • | • |
| #R004666_007_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004666_008_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R004666_012_RAM Hard Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| · · | | | | | | | | | |

| RRD04666, D1 - RAM Soft Ramping constraint for 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | |
|--|--|---|-----|---|-----|------|---|------|-----|
| ##006886_012_RAM Soft Remying consteant of 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004666 012 RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| ## ## ## ## ## ## ## ## ## ## ## ## ## | | 2 | 0 | 0 | 0 | 0 | | 0 | 0 0 |
| ##R00481 USE PAAM Soft Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 5 | 0 | 0 | 0 | 0 | | 0 | 0 0 |
| ##006985_024_PAM Solt Ramping constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | 0 | 0 | 0 | 0 | | 0 | 0 0 |
| #R004972-013 PAMS Self Empiring constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 2 | - | - | ₹ | - | | | |
| ##800471_07_07_07_07_07_07_07_07_07_07_07_07_07_ | | _ | • | - | • | • | | - | |
| #R00471_017_RAM Soft Ramping constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | • | O . | - | ₹ | • | | - | • |
| ##00472-012 RAM Self Ramping constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | • | = | • | • | ŭ | ŭ | - | ŭ | • |
| #R004772_018_RAM Hard Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | • | • | - | ŭ | ŭ | | | • |
| ##004772_078_ANA 50R Ramping constraint for 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | • | • | • | • | ŭ | - | - | • |
| RR004771_007_RAM Send Famming constraint for 0 0 0 0 0 0 0 0 0 | | - | O . | • | · · | • | • | · · | |
| #R004771_007_RAM_SRR farming constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | • | - | ~ | - | - | - | | | • |
| #R004771_018_RAM SRR Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | : : | ~ | • | - | ŭ | ŭ | | • | • |
| #R004771_018_RAM Hard Ramping constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | _ | 0 | - | • | • | | | |
| #R004771_013_RAM Soft Ramping constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004771_008_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004771_019_RAM_S0ft Ramping constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004771_013_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004771_019_RAM Soft Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004771_013_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004771_019_RAM Soft Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004771 014 RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004774_006_RAN bolt Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004774_000_RAM_Soft Ramping constraint for 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004774_007_RAM_Soft Ramping constraint for 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | : : | | 0 | - | 0 | - | | 0 | |
| #R004774_012_RAM_SNR Ramping constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | • | | 0 | - | 0 | 0 | | | |
| #R00774_012_RAM_Soft Ramping constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | • | • | • | 0 | • | | • | |
| #R004774_013_RAM Soft Ramping constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | • | • | - | • | • | | - | |
| #R004774_014_RAM Soft Ramping constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | • | - | O | • | | • | • |
| #R004781_00E_RAM Soft Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | • | 1 | • | - | ŭ | ŭ | | ŭ | • |
| #RO04781_007_RAM bard Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 1 | • | • | ŭ | ŭ | • | • | • |
| #R004781_007_RAM Soft Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | _ | • | • | • | • | • | • | • |
| #R004781_012_RAM_SOR Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | • | - | ŭ | - | | • | |
| #R004781_013_RAM_Soft Ramping constraint for 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | • | _ | • | - | ŭ | - | | • | • |
| #R004793_006_RAM Soft Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | , , | _ | • | - | • | • | | | |
| #R004793_00F, RM Soft Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | - | O . | • | · · | • | | • | • |
| #R004793_007_RAM Soft Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004793_006_RAM Hard Ramping constraint for | 6 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 0 2 |
| #R004793_012_RAM Soft Ramping constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004793_006_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004796_006_RAM Hard Ramping constraint for 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004793_007_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004796_006_RAM Soft Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004793_012_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004808_006_RAM Hard Ramping constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004796_006_RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004808_006_RAM Soft Ramping constraint for 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004796_006_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004808_007_RAM Soft Ramping constraint for 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004808_006_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004808_007_RAM Soft Ramping constraint for | #R004808 006 RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004808_012_RAM Hard Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004808_012_RAM Soft Ramping constraint for 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004808_013_RAM Soft Ramping constraint for 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | 0 | 0 | 0 | 0 | | | |
| #R004814_006_RAM Soft Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | - | 0 | 0 | 0 | 0 | - | 0 | 0 0 |
| #R00481_012_RAM Hard Ramping constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 2 | 0 | 0 | 0 | 0 | 0 | 0 | • |
| #R004820_001_RAM Soft Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | o . | | • | - | - | • | |
| #R004825_011_RAM Soft Ramping constraint for 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | • | • | - | ŭ | - | - | ŭ | • |
| #R004825_012_RAM Hard Ramping constraint for 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | _ | • | - | • | • | | - | |
| #R004825_012_RAM Soft Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | ~ | o . | • | · · | • | | • | • |
| #R004830_002_RAM Hard Ramping constraint for 6 3 0 0 3 0.01 0 0.01 0 0.01 0 3 #R004830_002_RAM Soft Ramping constraint for 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | • | | • | | ŭ | • | | | |
| #R004830_002_RAM Soft Ramping constraint for 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | • | • | • | • | | • | • |
| #R004830_003_RAM Soft Ramping constraint for 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | - | | | | | • |
| #R004832_002_RAM Hard Ramping constraint for 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 7 | O . | • | · · | • | - | • | • |
| #R004832_002_RAM Soft Ramping constraint for 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 1 | • | • | • | • | • | • | |
| #R004853_006_RAM Soft Ramping constraint for 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | _ | • | - | ŭ | - | - | ŭ | • |
| #R004853_012_RAM Hard Ramping constraint for 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004832_002_RAM Soft Ramping constraint for | • | 0 | - | 0 | 0 | - | 0 | • |
| #R004853_012_RAM Soft Ramping constraint for 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004853_006_RAM Soft Ramping constraint for | ~ | 0 | • | 0 | • | | - | |
| #R004853_013_RAM Soft Ramping constraint for 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #R004853_012_RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | | 0 | • |
| #R004880_017_RAM Soft Ramping constraint for 1 0 0 0 0 0 0 0 0 | #R004853_012_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R004880_017_RAM Soft Ramping constraint for 1 0 0 0 0 0 0 0 0 0 | #R004853_013_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| | | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| | _ · · · | | | | | | | | |

| #R004892_001_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
|---|--------|--------|---|---|------|---|------|-----|---|
| #R004949_012_RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R004949 013 RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 1 |
| #R004953 012 RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R004966_009_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R004966_010_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R004980_010_RAM Hard Ramping constraint for | • | • | • | • | • | - | · | | |
| #R004980_010_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R004980_011_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R004988_009_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R004988_010_RAM Hard Ramping constraint for | 4 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 0 4 | |
| #R004988_010_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 1 |
| #R004988_011_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R004988_017_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R004988_018_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R004988_018_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R005002_006_RAM Hard Ramping constraint for | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R005010_001_RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R005013 001 RAM Hard Ramping constraint for | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 1 | |
| #R005013_001_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | Ö | 0 | 0 0 | 1 |
| #R005014 001 RAM Hard Ramping constraint for | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005014_001_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005027_012_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005027_012_RAM Fraid Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| | ა 5 | 5 | 0 | 5 | • | 0 | • | 0 0 | |
| #R005047_003_RAM Hard Ramping constraint for | - | • | 0 | • | 0.02 | - | 0.02 | | |
| #R005047_003_RAM Soft Ramping constraint for | 8 | 8 | • | 8 | 0.03 | 0 | 0.03 | | |
| #R005063_003_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005063_004_RAM Hard Ramping constraint for | 4 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 0 2 | |
| #R005063_004_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005063_006_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005063_007_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005063_008_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005063_010_RAM Hard Ramping constraint for | 5 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 0 4 | |
| #R005063_012_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R005063_013_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R005063_013_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R005063_014_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R005070_003_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R005070_004_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R005079_003_RAM Hard Ramping constraint for | 6 | 1 | 0 | 1 | 0 | 0 | 0 | 0 1 | |
| #R005102 003 RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R005102_004_RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R005102_004_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R005102_005_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| #R005102 010 RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005111_002_RAM Hard Ramping constraint for | 5 | 5 | 0 | 5 | 0.02 | Ö | 0.02 | 0 5 | |
| #R005111_002_RAM Soft Ramping constraint for | 4 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 3 | |
| #R005119_002_RAM Hard Ramping constraint for | 3 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 3 | |
| #R005119_002_RAM Flate Ramping constraint for | 4 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 0 3 | |
| | 8 | 5 | 0 | 5 | | 0 | | 0 2 | |
| #R005122_002_RAM Hard Ramping constraint for | - | 5 0 | 0 | • | 0.02 | 0 | 0.02 | | |
| #R005166_004_RAM Hard Ramping constraint for | 6 | U | • | 0 | 0 | • | 0 | | |
| #R005192_002_RAM Hard Ramping constraint for | 4 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | • . | |
| #R005201_001_RAM Hard Ramping constraint for | 2 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 0 2 | |
| #R005201_001_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005211_005_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005211_005_RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005260_002_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005260_002_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005266_003_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |) |
| | | | | | | | | | |

| #R005266_003_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|---|-----|---|-----|------|---|------|-----|---|
| #R005272_004_RAM Hard Ramping constraint for | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005282_002_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005283_006_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005283 007 RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005283_012_RAM Hard Ramping constraint for | 3 | • | ŭ | • | - | • | • | • | - |
| #R005283_012_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005283_013_RAM Hard Ramping constraint for | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| #R005283_013_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005283_014_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005289_006_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005289_012_RAM Soft Ramping constraint for | 1 | • | ŭ | • | | • | ₹ | • | - |
| #R005289_013_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005290_002_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005305_004_RAM Hard Ramping constraint for | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005305_004_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005311_011_RAM Soft Ramping constraint for | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005317_012_RAM Hard Ramping constraint for | , | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 0 | • | · · | • | 0 | ₹ | • | • |
| #R005317_012_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005322_012_RAM Hard Ramping constraint for | 7 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 0 | 2 |
| #R005322_012_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005349_009_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005349_010_RAM Hard Ramping constraint for | 7 | 7 | 0 | 7 | 0.02 | 0 | 0.02 | 0 | 7 |
| #R005349_010_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005349_011_RAM Hard Ramping constraint for | ! | 0 | • | • | • | • | ₹ | • | - |
| #R005349_011_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005425_014_RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005425_014_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005425_015_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005457_001_RAM Hard Ramping constraint for | 8 | 6 | 0 | 6 | 0.02 | 0 | 0.02 | 0 | 6 |
| #R005470_001_RAM Hard Ramping constraint for | 0 | 2 | 0 | 3 | 0.01 | 0 | 0.01 | 0 | 3 |
| | 0 | 3 | 0 | 3 | 0.01 | 0 | | 0 | |
| #R005489_013_RAM Hard Ramping constraint for | 1 | 1 | Ü | 1 | • | • | 0 | • | 1 |
| #R005489_013_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005489_023_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005504_001_RAM Hard Ramping constraint for | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| #R005512_005_RAM Hard Ramping constraint for | 9 | 9 | 0 | 9 | 0.03 | 0 | 0.03 | 0 | 9 |
| #R005541_001_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005541_001_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005546_013_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | · · | 0 | · · | 0 | • | ₹ | • | 0 |
| #R005546_013_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005546_014_RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005546_014_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005546_015_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005546_020_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005556_002_RAM Hard Ramping constraint for | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| #R005559_002_RAM Hard Ramping constraint for | 1 | Ů | 0 | Ò | 0 | 0 | 0 | Ô | 0 |
| | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005559_003_RAM Hard Ramping constraint for | 1 | • | ŭ | • | • | • | • | • | • |
| #R005559_003_RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005567_009_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005570_005_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005570_005_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005571_016_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005583_005_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005583_010_RAM Soft Ramping constraint for | 2 | · · | U | · · | - | • | | · · | - |
| #R005583_011_RAM Hard Ramping constraint for | 5 | 5 | Ü | 5 | 0.02 | 0 | 0.02 | 0 | 5 |
| #R005583_011_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005583_012_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005583_012_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #R005586_004_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | |

| #R005586_004_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
|--|---|-----|---|-----|------|---|------|-----|
| #R005586_005_RAM Hard Ramping constraint for | 4 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 3 |
| #R005586_005_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005586_006_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005586_010_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005593_004_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005593_005_RAM Soft Ramping constraint for | - | o . | • | · · | • | - | • | • |
| #R005593_010_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005593_011_RAM Hard Ramping constraint for | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 1 |
| #R005593_011_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005593_012_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005605_009_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005605_009_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005605_010_RAM Hard Ramping constraint for | 2 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 0 2 |
| #R005605_010_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005606_004_RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005606_005_RAM Hard Ramping constraint for | 4 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 3 |
| #R005606 005 RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005606_006_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005607_011_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005607_012_RAM Hard Ramping constraint for | 2 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 0 2 |
| #R005607_012_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 0 |
| #R005607_012_RAM Soft Ramping constraint for | 3 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 3 |
| #R005607_014_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0.01 | 0 | 0.01 | 0 0 |
| | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005621_006_RAM Soft Ramping constraint for | 1 | 1 | 0 | 0 | 0 | - | 0 | • |
| #R005621_007_RAM Hard Ramping constraint for | 1 | • | - | 1 | • | 0 | • | • |
| #R005621_007_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005621_013_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005622_005_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005622_005_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005622_006_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005625_012_RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005625_012_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005625_016_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005625_017_RAM Hard Ramping constraint for | 4 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 3 |
| #R005625_017_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005625_018_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005625_026_RAM Hard Ramping constraint for | 5 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 0 4 |
| #R005625_026_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005628_008_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005628_008_RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005629_005_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005629_006_RAM Hard Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005629_006_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005629_011_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005629_012_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005629 012 RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005631_003_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005631_004_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005631 005 RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 0 0 |
| #R005631_008_RAM Hard Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005631_010_RAM Soft Ramping constraint for | 1 | • | • | · · | ŭ | • | O . | · · |
| #R005631_011_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005637_002_RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005637_002_RAM Soft Ramping constraint for | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005647_007_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005647_008_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005647_011_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| #R005647_013_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| | | | | | | | | |

| #R005647 014 RAM Hard Ramping constraint for | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 1 | |
|--|--------|---|---|---|------|---|------|-----|---|
| #R005647_014_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005648_005_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 1 |
| #R005648 006 RAM Hard Ramping constraint for | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 1 | |
| #R005648_006_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005648_012_RAM Hard Ramping constraint for | 7 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 0 4 | |
| #R005648_012_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005651_011_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005651_011_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005656_002_RAM Hard Ramping constraint for | 11 | 7 | 0 | 7 | 0.02 | 0 | 0.02 | 0 7 | |
| #R005671_001_RAM Hard Ramping constraint for | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005671_001_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005673 001 RAM Hard Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005673_001_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005681_006_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005692_003_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005694_002_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 1 |
| #R005696_001_RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 1 |
| #R005696 001 RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005700_006_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | Ô | 0 | 0 0 | |
| #R005700_007_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005723_007_RAM Hard Ramping constraint for | 6 | 6 | 0 | 6 | 0.02 | 0 | 0.02 | 0 6 | |
| #R005723_007_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005723_013_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005728_007_RAM Hard Ramping constraint for | 7 | 6 | 0 | 6 | 0.02 | 0 | 0.02 | 0 6 | |
| #R005728_008_RAM Hard Ramping constraint for | 7 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 3 | |
| #R005736 007 RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005736_008_RAM Hard Ramping constraint for | 7 | 6 | 0 | 6 | 0.02 | 0 | 0.02 | 0 6 | |
| #R005736_008_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005736_009_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005736_014_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005736_014_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005736_016_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005744 009 RAM Hard Ramping constraint for | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 1 | |
| #R005744_009_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005744_010_RAM Hard Ramping constraint for | 6 | 6 | 0 | 6 | 0.02 | 0 | 0.02 | 0 6 | |
| #R005744_010_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0.02 | 0 | 0.02 | 0 0 | |
| #R005761_029_RAM Hard Ramping constraint for | 8 | 8 | 0 | 8 | 0.03 | 0 | 0.03 | 0 8 | |
| #R005761_029_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 0 | |
| #R005761_030_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005778_006_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005778_007_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 1 |
| #R005778_008_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 1 |
| #R005778_013_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 1 |
| #R005783_004_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005784_006_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 1 |
| #R005784_007_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 1 |
| #R005784_008_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005794 004 RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005794_009_RAM Soft Ramping constraint for | - 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005794_010_RAM Hard Ramping constraint for | 5 | 0 | Õ | Õ | 0 | Ö | 0 | 0 0 | |
| #R005794_010_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005794_011_RAM Hard Ramping constraint for | 5 | 1 | 0 | 1 | 0 | 0 | 0 | 0 1 | |
| #R005794_011_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005796_005_RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005801_006_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005801_006_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005801 007 RAM Hard Ramping constraint for | 6 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 0 4 | |
| #R005801_008_RAM Soft Ramping constraint for | 1 | 0 | Õ | 0 | 0.01 | Ö | 0 | 0 0 | |
| | • | - | - | - | - | - | - | | |
| | | | | | | | | | |

| #R005801_012_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
|--|--------|---|---|---|------|---|------|-----|--|
| #R005801_012_RAM Soft Ramping constraint for | 5 | 0 | Ö | 0 | 0 | Ö | 0 | 0 0 | |
| #R005801 013 RAM Hard Ramping constraint for | 9 | 6 | 0 | 6 | 0.02 | 0 | 0.02 | 0 6 | |
| #R005801 013 RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005801_014_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005811_009_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005850_011_RAM Soft Ramping constraint for | - | ŭ | • | • | - | ŭ | ŭ | • • | |
| #R005866_001_RAM Hard Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005866_001_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005884_010_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005884_011_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005886_024_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005886_024_RAM Soft Ramping constraint for | 5 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 3 | |
| #R005922_002_RAM Hard Ramping constraint for | 6 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 3 | |
| #R005922_002_RAM Soft Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005923_004_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005961_004_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005961_004_RAM Soft Ramping constraint for | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005978 010 RAM Hard Ramping constraint for | 9 | 9 | 0 | 9 | 0.03 | 0 | 0.03 | 0 9 | |
| #R005978_010_RAM Soft Ramping constraint for | 3 | 2 | 0 | 2 | 0.01 | Ö | 0.01 | 0 2 | |
| #R005979 007 RAM Hard Ramping constraint for | 8 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 3 | |
| : 5 | 4 | 0 | 0 | 0 | 0.01 | 0 | 0.01 | 0 0 | |
| #R005979_007_RAM Soft Ramping constraint for | • | ₹ | 0 | ŭ | 0 | 0 | 0 | 0 0 | |
| #R005979_008_RAM Soft Ramping constraint for | 4 | 0 | - | 0 | - | • | • | 0 0 | |
| #R005979_014_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005981_017_RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005981_017_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005981_018_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005989_008_RAM Hard Ramping constraint for | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R005989_008_RAM Soft Ramping constraint for | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006007_003_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006025_008_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006025_008_RAM Soft Ramping constraint for | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006038_005_RAM Hard Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006038_005_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006039_008_RAM Hard Ramping constraint for | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 0 1 | |
| #R006039 008 RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006039 009 RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006039_014_RAM Hard Ramping constraint for | _ 8 | 1 | 0 | 1 | 0 | 0 | 0 | 0 1 | |
| #R006039_014_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006039_015_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | Ö | 0 | 0 0 | |
| #R006039 016 RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006063_002_RAM Hard Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006063_002_RAM Soft Ramping constraint for | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006066_011_RAM Soft Ramping constraint for | 1 | ŭ | • | ŭ | - | - | ŭ | • • | |
| #R006083_002_RAM Soft Ramping constraint for | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006105_001_RAM Hard Ramping constraint for | 9 | 0 | • | 0 | 0 | 0 | • | 0 0 | |
| #R006105_001_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006118_001_RAM Hard Ramping constraint for | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 1 | |
| #R006135_001_RAM Hard Ramping constraint for | 5 | 5 | 0 | 5 | 0.02 | 0 | 0.02 | 0 5 | |
| #R006136_001_RAM Hard Ramping constraint for | 5 | 5 | 0 | 5 | 0.02 | 0 | 0.02 | 0 5 | |
| #R006141_015_RAM Hard Ramping constraint for | 7 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 0 4 | |
| #R006141_015_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006147_015_RAM Hard Ramping constraint for | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006147_015_RAM Soft Ramping constraint for | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006165_001_RAM Hard Ramping constraint for | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 1 | |
| #R006165_001_RAM Soft Ramping constraint for | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | |
| #R006165_002_RAM Hard Ramping constraint for | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 1 | |
| #R006165_002_RAM Soft Ramping constraint for | 6 | 5 | 0 | 5 | 0.02 | 0 | 0.02 | 0 5 | |
| #SNOWTWN1_E SNWF1T.ENERGY * 1 <= 70 | 1 | 1 | 1 | 0 | 0 | Ö | 0 | 0 1 | |
| | • | * | • | - | - | - | • | | |
| | | | | | | | | | |

| #V-SA_RAMP_E_F V-SA <= MAX(0, InitialFlow - 30) | 8 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
|---|-------|-----|----|-----|------|------|------|-----|-----|
| #V-SA_RAMP_E_F V-SA <= MAX(112, InitialFlow - | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #V-SA_RAMP_E_F V-SA <= MAX(116, InitialFlow - | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #V-SA RAMP E F V-SA <= MAX(12, InitialFlow - | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #V-SA_RAMP_E_FV-SA <= MAX(185, InitialFlow - | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #V-SA_RAMP_E_F V-SA <= MAX(19, InitialFlow - | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| | ! | 1 | | 0 | - | 0 | 0 | 0 | - |
| #V-SA_RAMP_E_F V-SA <= MAX(40, InitialFlow - | 4 | 0 | 0 | • | 0 | • | · · | ŭ | 0 |
| $V-SA_RAMP_E_F$ $V-SA \le MAX(70, InitialFlow - $ | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #V-SA_RAMP_E_F V-SA <= MAX(9, InitialFlow - 30) | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #V-SA_RAMP_I_F V-SA >= MIN(-144, InitialFlow + | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $V-SA_RAMP_IF$ $V-SA >= MIN(-40, InitialFlow +$ | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #V-SA RAMP I F V-SA >= MIN(-50, InitialFlow + | 7 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 | 3 |
| #V-SA_RAMP_I_F V-SA >= MIN(-57, InitialFlow + | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| #V-SA_RAMP_I_F V-SA >= MIN(-58, InitialFlow + | 14 | 10 | 0 | 10 | 0.03 | Ö | 0.03 | 0 | 10 |
| #V-SA_RAMP_I_F | 4 | 0 | 0 | 0 | 0.03 | 0 | 0.00 | 0 | 0 |
| | 4 | 0 | v | | | - | | 0 | |
| #V-SA_RAMP_I_F V-SA >= MIN(-71, InitialFlow + | 1 | • | 0 | 0 | 0 | 0 | 0 | ŭ | 0 |
| $V-SA_RAMP_I_F$ V-SA >= MIN(-73, InitialFlow + | 3 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 0 | 2 |
| $V-SA_RAMP_I_F$ $V-SA >= MIN(-91, InitialFlow +$ | 4 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 | 3 |
| #V-S-MNSP1_I_E | 148 | 38 | 0 | 38 | 0.13 | 0 | 0.13 | 38 | 38 |
| #V-S-MNSP1_I_E | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| #V-S-MNSP1 E | 40 | 14 | 0 | 14 | 0.05 | 0 | 0.05 | 14 | 14 |
| CA BPS 3C672E99 Constraint Automation, O/L | 12 | 12 | 0 | 12 | 0.04 | 0 | 0.04 | 12 | 12 |
| CA_BPS_3C673EE1 Constraint Automation, O/L | 22 | 20 | 0 | 20 | 0.07 | Ö | 0.07 | 20 | 20 |
| | | | • | 0 | | 0.17 | 0.07 | 0 | |
| CA_MQS_3D227641 Constraint Automation, O/L | 49 | 49 | 49 | | 0.17 | | • | | 49 |
| CA_MQS_3DCC97B Constraint Automation, O/L | 4 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 4 | 4 |
| CA_MQS_3DCC9BF Constraint Automation, O/L | 6 | 5 | 0 | 5 | 0.02 | 0 | 0.02 | 5 | 5 |
| CA_SPS_3C5BC78C Constraint Automation, O/L | 16 | 15 | 0 | 15 | 0.05 | 0 | 0.05 | 15 | 15 |
| CA_SPS_3C5C6D7F Constraint Automation, O/L | 57 | 56 | 0 | 56 | 0.19 | 0 | 0.19 | 56 | 56 |
| CA_SPS_3CACE072 Constraint Automation, O/L | 86 | 22 | 0 | 22 | 0.08 | 0 | 0.08 | 0 | 22 |
| CA_SPS_3D470CCA Constraint Automation, O/L | 72 | 66 | 0 | 66 | 0.23 | 0 | 0.23 | 66 | 66 |
| CA_SPS_3D470CCA Constraint Automation, O/L | 11 | 11 | 0 | 11 | 0.04 | 0 | 0.04 | 11 | 11 |
| CA_SPS_3D47601E Constraint Automation, O/L | 161 | 144 | 0 | 144 | 0.5 | Ö | 0.5 | 144 | 144 |
| | | 0 | 0 | 0 | 0.5 | 0 | 0.5 | 0 | 0 |
| F_ESTN++HYML_L5 Out = one Heywood to | 1031 | v | v | · · | - | - | • | - | - |
| F_ESTN++HYML_L6 Out = one Heywood to | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_ESTN++HYML_L6 Out = one Heywood to | 1384 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_ESTN++HYMO_L5 Out = Heywood to Mortlake | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_ESTN++HYMO_L6 Out = Heywood to Mortlake | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_ESTN++HYMO_L6 Out = Heywood to Mortlake | 348 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F I+APHY L5 Out=Heywood to Alcoa Portland | 4946 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F I+APHY L60 Out=Heywood to Alcoa Portland | 1233 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_I+ML_L5_0400 Out = Nil, Lower 5 min | 85260 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Ô |
| F_I+ML_L5_APD Out = Nil, Lower 5 min | 232 | 0 | Ů. | 0 | 0 | 0 | 0 | 0 | 0 |
| | 27835 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_I+ML_L6_0400 Out = Nil, Lower 6 sec | | • | • | • | • | | • | ŭ | • |
| F_I+ML_L6_APD Out = Nil, Lower 6 sec | 153 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $F_l+ML_L60_0400$ Out = Nil, Lower 60 sec | 13497 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_I+ML_L60_APD Out = Nil, Lower 60 sec | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_I+NIL_DYN_LREG NEM Lower Regulation | 89302 | 248 | 0 | 248 | 0.86 | 0 | 0.86 | 0 | 248 |
| F_I+NIL_DYN_RRE NEM Raise Regulation | 20901 | 12 | 0 | 12 | 0.04 | 0 | 0.04 | 0 | 12 |
| F I+NIL MG R5 Out = Nil, Raise 5 min | 96706 | 130 | 0 | 130 | 0.45 | 0 | 0.45 | 0 | 130 |
| F_I+NIL_MG_R6 Out = Nil, Raise 6 sec | 91288 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| F_I+NIL_MG_R60 Out = Nil, Raise 60 sec | 89231 | 0 | 0 | 0 | 0 | Ö | 0 | Ö | 0 |
| F_I+RREG_0350 NEM Raise Regulation | 38 | 33 | 0 | 33 | 0.11 | 0 | 0.11 | 0 | 33 |
| | | | • | | | | | ŭ | |
| F_I+RREG_0400 NEM Raise Regulation | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_MAIN++APHY_L5 Out=Heywood to Alcoa Portland | 1428 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_MAIN++APHY_L6 Out=Heywood to Alcoa Portland | 279 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_MAIN++ML_L5_04 Out = Nil, Lower 5 min | 25382 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 0 | 2 |
| F_MAIN++ML_L5_A Out = Nil, Lower 5 min | 57 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_MAIN++ML_L6_04 Out = Nil, Lower 6 sec | 17899 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <i> ,</i> | | | | | | | | | |

| F_MAIN++ML_L6_A Out = Nil, Lower 6 sec | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------|-----|---|-----|------|---|------|-----|---------------------------------------|
| F_MAIN++ML_L60_0 Out = Nil, Lower 60 sec | 4476 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_MAIN++ML_L60_A Out = Nil, Lower 60 sec | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_MAIN++NIL_BL_L Mainland Lower 60 second | 23692 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_MAIN++NIL_DYN_ Mainland Lower Regulation | 5254 | 26 | 0 | 26 | 0.09 | 0 | 0.09 | 0 | 26 |
| | | 3 | 0 | 3 | | 0 | | - | 3 |
| F_MAIN++NIL_DYN_ Mainland Raise Regulation | 63 | | - | | 0.01 | | 0.01 | 0 | |
| F_MAIN++NIL_MG_ Out = Nil, Raise 5 min | 9096 | 38 | 0 | 38 | 0.13 | 0 | 0.13 | 0 | 38 |
| F_MAIN++NIL_MG_ Out = Nil, Raise 6 sec | 9731 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| F MAIN++NIL MG Out = Nil, Raise 60 sec | 14209 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F MAIN++RREG 03 Mainland Raise Regulation | 6 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| F_MAIN+APHY_L5 Out=Heywood to Alcoa Portland | 246 | 0 | 0 | 0 | 0 | 0 | Ö | 0 | 0 |
| , | | • | • | | ŭ | | | • | |
| F_MAIN+APHY_L60 Out=Heywood to Alcoa Portland | 171 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_MAIN+ML_L5_040 Out = Nil, Lower 5 min | 5641 | 9 | 0 | 9 | 0.03 | 0 | 0.03 | 0 | 9 |
| F_MAIN+ML_L5_AP Out = Nil, Lower 5 min | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_MAIN+ML_L6_040 Out = Nil, Lower 6 sec | 5462 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_MAIN+ML_L6_AP Out = Nil, Lower 6 sec | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_MAIN+ML_L60_04 Out = Nil, Lower 60 sec | 5045 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | • | 0 | | - | | | - | 0 |
| F_MAIN+ML_L60_A Out = Nil, Lower 60 sec | 24 | 0 | • | 0 | 0 | 0 | 0 | 0 | - |
| F_MAIN+NIL_DYN_L Mainland Lower Regulation | 3762 | 66 | 0 | 66 | 0.23 | 0 | 0.23 | 0 | 66 |
| F_MAIN+NIL_DYN_ Mainland Raise Regulation | 392 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 0 | 4 |
| F MAIN+NIL MG R Out = Nil, Raise 5 min | 5774 | 24 | 0 | 24 | 0.08 | 0 | 0.08 | 0 | 24 |
| F MAIN+NIL MG R Out = Nil, Raise 6 sec | 5774 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F MAIN+NIL MG R Out = Nil, Raise 60 sec | 5774 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | | - | | ~ | - | 0 |
| F_NVS++ARDM_L60 Out = one Armidale to Bulli | 2 | • | • | 0 | 0 | 0 | 0 | 0 | • |
| F_NVS++ARTW_L60 Out = Armidale to Tamworth (85 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_NVS++MG_R5 Raise 5 min Service | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_NVS++MG_R6 Raise 6 sec Service | 3 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 | 3 |
| F_NVS++MG_R60 Raise 60 sec Service | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_NVS+ARTW_L60 Out = Armidale to Tamworth (85 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_QNV++HYML_L5 Out = one Heywood to | 709 | • | ₹ | - | • | - | | - | - |
| $F_QNV++HYML_L6$ Out = one Heywood to | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_QNV++HYML_L60 Out = one Heywood to | 1037 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_QNV++HYMO_L5 Out = Heywood to Mortlake | 254 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F QNV++HYMO L6 Out = Heywood to Mortlake | 83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F QNV++HYMO L6 Out = Heywood to Mortlake | 331 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F QNV+HYML L5 Out = one Heywood to | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | - | - | - | • | | ~ | - | - |
| F_QNV+HYML_L6 Out = one Heywood to | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_QNV+HYML_L60 Out = one Heywood to | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_QNV+HYMO_L5 Out = Heywood to Mortlake | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_QNV+HYMO_L60 Out = Heywood to Mortlake | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_S++HYML_L5 Out = one Heywood to | 473 | 84 | 0 | 84 | 0.29 | 0 | 0.29 | 84 | 84 |
| F_S++HYML_L6 Out = one Heywood to | 668 | 42 | 0 | 42 | 0.15 | 0 | 0.15 | 42 | 42 |
| · | | | • | | | | | | |
| F_S++HYML_L60 Out = one Heywood to | 1645 | 545 | 0 | 545 | 1.89 | 0 | 1.89 | 545 | 545 |
| F_S++HYSE_L5 Out = one Heywood to South | 78 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 2 | 2 |
| F_S++HYSE_L6 Out = one Heywood to South | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_S++HYSE_L60 Out = one Heywood to South | 552 | 130 | 0 | 130 | 0.45 | 0 | 0.45 | 130 | 130 |
| F S++ML L5 Lower 5 min Service | 3 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 3 | 3 |
| F S+LREG 0070 SA Lower Regulation | 6 | 5 | 0 | 5 | 0.02 | 0 | 0.02 | 5 | 5 |
| | 6 | 6 | 0 | | | - | | 6 | 6 |
| F_S+MG_R5 Raise 5 min Service | | ~ | - | 6 | 0.02 | 0 | 0.02 | - | - |
| F_S+MG_R6 Raise 6 sec Service | 7 | 7 | 0 | 7 | 0.02 | 0 | 0.02 | 7 | 7 |
| F_S+MG_R60 Raise 60 sec Service | 7 | 7 | 0 | 7 | 0.02 | 0 | 0.02 | 7 | 7 |
| F_S+RREG_0070 SA Raise Regulation | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| F_S+TL_L5_OD Lower 5 min Service | 7 | 7 | 0 | 7 | 0.02 | 0 | 0.02 | 7 | 7 |
| F_S+TL_L6_OD Lower 6 sec Service | 7 | 7 | 0 | 7 | 0.02 | 0 | 0.02 | 7 | 7 |
| | 7 | 7 | 0 | 7 | | 0 | | 7 | 7 |
| F_S+TL_L60_OD Lower 60 sec Service | | • | • | | 0.02 | | 0.02 | = - | · · · · · · · · · · · · · · · · · · · |
| F_STHN++ARDM_L6 Out = one Armidale to Bulli | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_STHN++ARTW_L Out = Armidale to Tamworth (85 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_STHN+LREG_012 Southern Lower Regulation | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F STHN+MG R5 Raise 5 min Service | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | |

| F STHN+MG R6 | Raise 6 sec Service | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------|-------------------------------------|------|------|-----|------|------|------|------|----|------|
| F_STHN+MG_R60 | Raise 60 sec Service | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F_STHN+ML_L5_03 | Lower 5 min requirement for a | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N::V_DDMS | Out= Dederang - Murray (67 or | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N::V_ERVY_MNSW_ | Out=Nil, loss of Eraring to | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| N::V_LTMS | Out= Lower Tumut - Murray (66) | 19 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 2 | 2 |
| N::V_MNSW_SWVY | Out=Nil, loss of Munmorah to | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N::V_MPWW_ONE | Out= Mt. Piper to Wallerarang | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N::V_MSUT | Out= Murray - Upper Tumut (65) | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N::V SNTG | Out= Tuggerah - Sydney North | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N::V_SWVY | Out= Sydney West - Vineyard | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N ^V NIL 2 | Outage = Nil, limit Vic | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N>>N-NIL 996 IN | Out = Nil, avoid Wagga to | 9 | 5 | 0 | 5 | 0.02 | 0 | 0.02 | 0 | 5 |
| N>>N-NIL_996_IN | Out = Nil, manage Wagga to | 2 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 0 | 2 |
| N>>N-NIL_DPTX | Out=Nil, avoid Darlington Point | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| S:V_420 | Maintain maximum transfer limit | 187 | 76 | 0 | 76 | 0.26 | 0 | 0.26 | 0 | 76 |
| S:V_580 | Maintain maximum transfer limit | 111 | 52 | 0 | 52 | 0.18 | 0 | 0.18 | 0 | 52 |
| S:V_SA_PSS | Out= Nil; SA to Vic Oscillatory | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S^NIL PL MAX | Out = Nil, Maximum generation | 12 | 11 | 0 | 11 | 0.04 | 0 | 0.04 | 0 | 11 |
| S_ANGA_1+2 | Angaston <= 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| S HALWF 0 | Discretionary upper limit for | 65 | 65 | 0 | 65 | 0.23 | 0 | 0.23 | 65 | 65 |
| S LB2WF CONF | Out= Nil; Limit Lake Bonney 2 & | 79 | 79 | 0 | 79 | 0.27 | 0 | 0.27 | 0 | 79 |
| S_LB3_0 | Discretionary upper limit for Lake | 15 | 15 | 15 | 0 | 0.05 | 0.05 | 0 | 0 | 15 |
| S_NPS1_260 | Discretionary upper limit for | 5 | 5 | 5 | 0 | 0.02 | 0.02 | 0 | 0 | 5 |
| S NPS2 260 | Discretionary upper limit for | 5 | 5 | 5 | 0 | 0.02 | 0.02 | 0 | 0 | 5 |
| S PF 4 UNITS | Out = 4 Playford units. Playford | 74 | 74 | 0 | 74 | 0.26 | 0 | 0.26 | 0 | 74 |
| S PLN ISL2 | Out = Yadnarie to Port Lincoln | 41 | 41 | 0 | 41 | 0.14 | 0 | 0.14 | 41 | 41 |
| S PLN ISL32 | Out = Yadnarie to Port Lincoln | 41 | 41 | 0 | 41 | 0.14 | 0 | 0.14 | 41 | 41 |
| S_PPT210 | SA Pelican Point gen <= 210MW | 202 | 16 | 16 | 0 | 0.06 | 0.06 | 0 | 0 | 16 |
| S_PPT240 | SA Pelican Point gen <= 240MW | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| S PPT273 | SA Pelican Point generation <= | 13 | 13 | 13 | 0 | 0.05 | 0.05 | 0 | 0 | 13 |
| S V NIL-300 | Out= Nil, limit SA to Vic to reduce | 31 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| S>>V BP RBTU- | Out= Brinkworth - Para line; | 11 | 11 | 0 | 11 | 0.04 | 0 | 0.04 | 11 | 11 |
| S>>V BP RBTU- | Out= Brinkworth - Templers | 10 | 10 | 10 | 0 | 0.03 | 0.03 | 0 | 0 | 10 |
| | Prior Outage = Cherry Gardens - | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Prior Outage= Cherry Gardens - | 578 | 113 | 113 | 0 | 0.39 | 0.39 | 0 | 0 | 113 |
| | Out = Davenport - Canowie line; | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S>>V_DB_RBTU- | Out= Davenport - Brinkworth | 9 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 0 | 4 |
| | Out = Keith - Kincraig 132 kV | 25 | 13 | 13 | 0 | 0.05 | 0.05 | 0 | 0 | 13 |
| | Out= Kincraig - Penola West 132 | 31 | 16 | 16 | 0 | 0.06 | 0.06 | 0 | 0 | 16 |
| | Out= Nil, avoid O/L Snowtown | 5 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 | 3 |
| | Out = Nil; Avoid O/L Hummocks | 19 | 16 | 0 | 16 | 0.06 | 0 | 0.06 | 0 | 16 |
| S>>V_NIL_NIL_RBT | Out=Nil with Murraylink runback | 4 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 | 3 |
| S>>V_NIL_RBTX_M | Out= Nil, avoid O/L Morgan | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S>>V_NIL_RBTX2_F | R Out=Nil with Murraylink runback | 27 | 22 | 0 | 22 | 0.08 | 0 | 0.08 | 0 | 22 |
| | R Out=Nil: limit SA to Vic on | 169 | 65 | 0 | 65 | 0.23 | 0 | 0.23 | 0 | 65 |
| S>>V_NIL_RBTXW_ | Out=Nil: limit SA to Vic on | 1484 | 184 | 0 | 184 | 0.64 | 0 | 0.64 | 0 | 184 |
| S>>V_NIL_SETX_SE | Out= Nil, avoid O/L the | 218 | 153 | 0 | 153 | 0.53 | 0 | 0.53 | 0 | 153 |
| S>>V_NIL_SETX_SE | Out= Nil, avoid overloading a | 2260 | 1010 | 0 | 1010 | 3.51 | 0 | 3.51 | 0 | 1010 |
| S>>V_NIL_WTTP_W | / Out= Nil, avoid O/L Waterloo | 1570 | 1121 | 0 | 1121 | 3.89 | 0 | 3.89 | 0 | 1121 |
| S>>V_PARS_RBTX_ | Out=Para - Roseworthy or | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S>>V_RBTU_N- | Out= Nil; avoid O/L Robertstown | 24 | 12 | 0 | 12 | 0.04 | 0 | 0.04 | 0 | 12 |
| S>>V_RBTX_RBTX_ | Out=One Robertstown 275/132 | 21 | 20 | 20 | 0 | 0.07 | 0.07 | 0 | 0 | 20 |
| | Out = Waterloo East - Waterloo | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Out= Nil, avoid O/L Tungkillo to | 124 | 29 | 0 | 29 | 0.1 | 0 | 0.1 | 0 | 29 |
| S>NIL_HUWT_STB0 | Out = Nil; Limit Snowtown WF | 128 | 128 | 0 | 128 | 0.44 | 0 | 0.44 | 0 | 128 |
| | Out = NIL; Limit LB2 and LB3 | 386 | 262 | 0 | 262 | 0.91 | 0 | 0.91 | 0 | 262 |
| | Out = NIL; Limit generation to | 55 | 53 | 0 | 53 | 0.18 | 0 | 0.18 | 0 | 53 |
| | Out= Nil, avoid O/L Tailem Bend | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | |

| 0.0540000.057 | 0 . 0 5 | 40 | 40 | 4.0 | • | 0.05 | | | | 4.0 |
|------------------------------|--|------|-----|-----|-----|------|------|------|---------------------------------------|-----|
| | Out= South East 132 kV CB6160 | 13 | 13 | 13 | 0 | 0.05 | 0.05 | 0 | 0 | 13 |
| S>SECB6161_SET | X Out = South East 132 kV | 2 | 2 | 2 | 0 | 0.01 | 0.01 | 0 | 0 | 2 |
| S>SETX_SETX_SG | K Out= One South East 275/132kV | 166 | 145 | 145 | 0 | 0.5 | 0.5 | 0 | 0 | 145 |
| S>V NIL HYTX HY | Out= Nil, limit SA to Vic to avoid | 58 | 12 | 0 | 12 | 0.04 | 0 | 0.04 | 0 | 12 |
| S>V NIL NIL RBN | Out = Nil, avoid overloading | 1722 | 664 | 0 | 664 | 2.31 | 0 | 2.31 | 0 | 664 |
| S>V_NIL_NIL_RBN | | 379 | 135 | 0 | 135 | 0.47 | 0 | 0.47 | 0 | 135 |
| | | 18 | 6 | 0 | 6 | 0.02 | 0 | 0.02 | 6 | 6 |
| S>V_NORB_MWRE | | | | • | | | | | - | |
| S>VML_NWCB6033 | | 66 | 50 | 50 | 0 | 0.17 | 0.17 | 0 | 0 | 50 |
| SA_HYSE1 | SA / Eastern separation between | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SA_HYSE2 | SA / Eastern separation between | 3 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 3 | 3 |
| S-LB2_0 | Discretionary upper limit for Lake | 17 | 17 | 17 | 0 | 0.06 | 0.06 | 0 | 0 | 17 |
| S-SNWWF_0 | Discretionary upper limit for | 309 | 309 | 27 | 282 | 1.07 | 0.09 | 0.98 | 106 | 309 |
| SV 260 | SA to Victoria on VicSA upper | 67 | 6 | 6 | 0 | 0.02 | 0.02 | 0 | 0 | 6 |
| SV_200 | SA to Victoria on VicSA upper | 33 | 13 | 13 | 0 | 0.05 | 0.05 | 0 | 0 | 13 |
| SVML_000 | SA to Victoria on Victoria upper SA to Victoria on Victoria upper SA to Victoria on Victoria upper | 844 | 68 | 9 | 59 | 0.03 | 0.03 | 0.2 | 59 | 68 |
| | | | | | | | | | | |
| SVS_420 | SA to Vic on Vic-SA + ML upper | 15 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 0 | 2 |
| V::N_BUDPQD_R | Outage = Buronga to Darlington | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_BUDPQE_R | Outage = Buronga to Darlington | 204 | 17 | 0 | 17 | 0.06 | 0 | 0.06 | 17 | 17 |
| V::N_BUDPQF_R | Outage = Buronga to Darlington | 45 | 8 | 0 | 8 | 0.03 | 0 | 0.03 | 8 | 8 |
| V::N_BUDPVD_R | Outage = Buronga to Darlington | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_BUDPVE_R | Outage = Buronga to Darlington | 193 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_BUDPVF_R | Outage = Buronga to Darlington | 50 | 13 | 0 | 13 | 0.05 | 0 | 0.05 | 13 | 13 |
| V::N DDMSQB R | Outage = Dederang to Murray | 62 | 35 | 0 | 35 | 0.12 | 0 | 0.12 | 35 | 35 |
| V::N_DDMSQC_R | Outage = Dederang to Murray | 1 | 0 | 0 | 0 | 0.12 | 0 | 0.12 | 0 | 0 |
| | | | | 0 | 1 | | 0 | | 1 | |
| V::N_DDMSQD_R | Outage = Dederang to Murray | 38 | 1 | ~ | | 0 | - | 0 | · · · · · · · · · · · · · · · · · · · | 1 |
| V::N_DDMSQE_R | Outage = Dederang to Murray | 201 | 67 | 0 | 67 | 0.23 | 0 | 0.23 | 67 | 67 |
| V::N_DDMSQF_R | Outage = Dederang to Murray | 20 | 8 | 0 | 8 | 0.03 | 0 | 0.03 | 8 | 8 |
| V::N_DDMSVB_R | Outage = Dederang to Murray | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_DDMSVC_R | Outage = Dederang to Murray | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_DDMSVD_R | Outage = Dederang to Murray | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_DDMSVE_R | Outage = Dederang to Murray | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_DDMSVF_R | Outage = Dederang to Murray | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_DDMOV1_IX V::N_DDSM2 | Outage = Dederang to Mulitary Outage = Dederang to South | 30 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 2 | 2 |
| V::N EPTTQD R | Outage = Eildon to Thomastown | 23 | 0 | 0 | 0 | 0.01 | 0 | 0.01 | 0 | 0 |
| | | | - | ~ | ~ | | | | - | |
| V::N_EPTTQE_R | Outage = Eildon to Thomastown | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_EPTTVB_R | Outage = Eildon to Thomastown | 29 | 5 | 0 | 5 | 0.02 | 0 | 0.02 | 5 | 5 |
| V::N_EPTTVC_R | Outage = Eildon to Thomastown | 8 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 3 | 3 |
| V::N_EPTTVD_R | Outage = Eildon to Thomastown | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_EPTTVF_R | Outage = Eildon to Thomastown | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| V::N_HWSMQD_R | Outage = Hazelwood to South | 26 | 13 | 0 | 13 | 0.05 | 0 | 0.05 | 13 | 13 |
| V::N_HWSMQE_R | Outage = Hazelwood to South | 46 | 40 | 0 | 40 | 0.14 | 0 | 0.14 | 40 | 40 |
| V::N_HYMLQA_R | Outage = Heywood to Moorabool | 19 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 3 | 3 |
| V::N HYMLQB R | Outage = Heywood to Moorabool | 93 | 22 | 0 | 22 | 0.08 | 0 | 0.08 | 22 | 22 |
| V::N HYMLQD_R | Outage = Heywood to Moorabool | 6 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0 | 0 |
| | | | | 0 | 4 | | | | 4 | |
| V::N_HYMLQE_R | Outage = Heywood to Moorabool | 45 | 4 | • | • | 0.01 | 0 | 0.01 | • | 4 |
| V::N_HYMLVA_R | Outage = Heywood to Moorabool | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_HYMLVB_R | Outage = Heywood to Moorabool | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_HYMLVD_R | Outage = Heywood to Moorabool | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_HYMLVE_R | Outage = Heywood to Moorabool | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N HYSEQB R | Outage = Heywood to South | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_HYSEQD_R | Outage = Heywood to South | 16 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 4 | 4 |
| V::N_HYSEQE_R | Outage = Heywood to South | 67 | 5 | 0 | 5 | 0.02 | 0 | 0.02 | 5 | 5 |
| V::N HYSEVB R | Outage = Heywood to South | 3 | 1 | 0 | 1 | 0.02 | 0 | 0.02 | 1 | 1 |
| | 2 , | - | 0 | 0 | 0 | ~ | 0 | 0 | 0 | 0 |
| V::N_HYSEVD_R | Outage = Heywood to South | 10 | - | - | ~ | 0 | | | - | |
| V::N_HYSEVE_R | Outage = Heywood to South | 56 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 2 | 2 |
| V::N_LTMSQE_R | Outage = Lower Tumut to Murray | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_MLTXQF_R | Outage = Moorabool 500/220kV | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_MSUTQD_R | Outage = Upper Tumut to | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_MSUTQE_R | Outage = Upper Tumut to | 67 | 11 | 0 | 11 | 0.04 | 0 | 0.04 | 11 | 11 |
| | | | | | | | | | | |

| V::N_MSUTVD_R | Outage = Upper Tumut to | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------|----------------------------------|------|-----|----|-----|------|------|------|----|-----|
| V::N_MSUTVE_R | Outage = Upper Tumut to | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_NIL_SH | VIC to NSW Transient Limit for | 10 | 6 | 0 | 6 | 0.02 | 0 | 0.02 | 0 | 6 |
| V::N_NILQA_BL_R | Outage = Nil, Basslink import | 328 | 52 | 0 | 52 | 0.18 | | 0.18 | 0 | 52 |
| | | | | 0 | | | | | • | |
| V::N_NILQB_BL_R | Outage = Nil, Basslink import | 466 | 79 | • | 79 | 0.27 | 0 | 0.27 | 0 | 79 |
| V::N_NILQC_BL_R | Outage = Nil, Basslink import | 410 | 166 | 0 | 166 | 0.58 | 0 | 0.58 | 0 | 166 |
| V::N_NILQD_BL_R | Outage = Nil, Basslink export to | 742 | 19 | 0 | 19 | 0.07 | 0 | 0.07 | 0 | 19 |
| V::N NILQD BL R- | Out = NIL, avoid transient | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_NILQD_BL_R- | • | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | • | | | | - | | | |
| V::N_NILQD_BL_R- | | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_NILQD_BL_R- | Out = NIL, avoid transient | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N NILQD BL R- | Out = NIL, avoid transient | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_NILQE_BL_R | Outage = Nil, Basslink export to | 2990 | 249 | 0 | 249 | 0.86 | 0 | 0.86 | 0 | 249 |
| V::N NILQE BL R- | | 2550 | 0 | 0 | 0 | 0.00 | | 0.00 | 0 | 0 |
| | • | 1700 | • | • | | | • | • | • | |
| V::N_NILQF_BL_R | Outage = Nil, Basslink export to | 1790 | 262 | 0 | 262 | 0.91 | 0 | 0.91 | 0 | 262 |
| V::N_NILQF_BL_R- | Out = NIL, avoid transient | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_NILVA_BL_R | Outage = Nil, Basslink import | 172 | 9 | 0 | 9 | 0.03 | 0 | 0.03 | 0 | 9 |
| V::N_NILVB_BL_R | Outage = Nil, Basslink import | 680 | 71 | 0 | 71 | 0.25 | | 0.25 | 0 | 71 |
| | | | | 0 | | | | | 0 | |
| V::N_NILVC_BL_R | Outage = Nil, Basslink import | 565 | 57 | • | 57 | 0.2 | | 0.2 | - | 57 |
| V::N_NILVD_BL_R | Outage = Nil, Basslink export to | 735 | 11 | 0 | 11 | 0.04 | 0 | 0.04 | 0 | 11 |
| V::N_NILVD_BL_R- | Out = NIL, avoid transient | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N NILVD BL R- | Out = NIL, avoid transient | 20 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| V::N_NILVD_BL_R- | | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 50 | • | 0 | 4 | | 0 | | 0 | |
| V::N_NILVD_BL_R- | | | 4 | ŭ | • | 0.01 | • | 0.01 | • | 4 |
| V::N_NILVD_BL_R- | Out = NIL, avoid transient | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_NILVD_BL_R- | Out = NIL, avoid transient | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N NILVD BL R- | Out = NIL, avoid transient | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_NILVE_BL_R | Outage = Nil, Basslink export to | 2293 | 45 | 0 | 45 | 0.16 | - | 0.16 | 0 | 45 |
| | | | | | | | 0 | | • | |
| V::N_NILVE_BL_R- | | 159 | 11 | 0 | 11 | 0.04 | - | 0.04 | 0 | 11 |
| V::N_NILVE_BL_R- | Out = NIL, avoid transient | 48 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 0 | 4 |
| V::N NILVE BL R- | Out = NIL, avoid transient | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N NILVF BL R | Outage = Nil, Basslink export to | 1877 | 110 | 0 | 110 | 0.38 | 0 | 0.38 | 0 | 110 |
| V::N NILVF BL R- | Out = NIL, avoid transient | 39 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0 | 0 |
| | • | | - | | | - | • | - | • | 0 |
| V::N_NILVF_BL_R- | Out = NIL, avoid transient | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| V::N_NILVF_BL_R- | Out = NIL, avoid transient | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::N_SMCSQA_R | Outage = South Morang 330kV | 27 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 4 | 4 |
| V::N_SMCSQB_R | Outage = South Morang 330kV | 21 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 4 | 4 |
| V::N_SMCSQC_R | Outage = South Morang 330kV | 31 | 15 | 0 | 15 | 0.05 | • | 0.05 | 15 | 15 |
| | 0 0 | | | | | | - | | | |
| V::N_SMCSQD_R | Outage = South Morang 330kV | 8 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| V::N_SMCSQE_R | Outage = South Morang 330kV | 51 | 7 | 0 | 7 | 0.02 | 0 | 0.02 | 7 | 7 |
| V::N SMCSQF R | Outage = South Morang 330kV | 44 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 3 | 3 |
| V::N_SMCSVA_R | Outage = South Morang 330kV | 95 | 14 | 0 | 14 | 0.05 | 0 | 0.05 | 14 | 14 |
| V::N_SMCSVB_R | Outage = South Morang 330kV | 198 | 86 | 0 | 86 | 0.3 | | 0.3 | 86 | 86 |
| | | | | • | | | • | | | |
| V::N_SMCSVC_R | Outage = South Morang 330kV | 76 | 25 | 0 | 25 | 0.09 | | 0.09 | 25 | 25 |
| V::N_SMCSVD_R | Outage = South Morang 330kV | 53 | 9 | 0 | 9 | 0.03 | 0 | 0.03 | 9 | 9 |
| V::N_SMCSVE_R | Outage = South Morang 330kV | 31 | 14 | 0 | 14 | 0.05 | 0 | 0.05 | 14 | 14 |
| V::N_SMCSVF_R | Outage = South Morang 330kV | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Out = South Morang F2 500/330 | 1 | 0 | 0 | 0 | 0 | • | 0 | 0 | 0 |
| V::N_SMF2QB_R | | • | | | | | | | | |
| V::N_SMF2VB_R | Outage=South Morang 500/330 | 77 | 45 | 0 | 45 | 0.16 | | 0.16 | 45 | 45 |
| V::N_SMF2VC_R | Outage=South Morang 500/330 | 18 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 2 | 2 |
| V::S_ACMA | Out=Angas Creek-Mannum | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::S MBMO | Out= Mt Barker - Mobilong 132 | 32 | 12 | 12 | 0 | 0.04 | 0.04 | 0 | 0 | 12 |
| _ | | | 0 | 0 | 0 | | | 0 | | |
| | Out = Nil; Vic to SA transient | 40 | ŭ | | | 0 | | - | 0 | 0 |
| | Out = Nil; Vic to SA transient | 303 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 0 | 4 |
| V::S_NIL_NPS_SEO | Out = Nil; Vic to SA transient | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::S_PAAC | Out = Para to Angas Ck 132kV | 154 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V::S PAAC | Out = Para to Angas Ck 132kV | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| _ | S | | • | ŭ | • | • | U | • | - | |
| V::S_SE_VC | Out = one South East SVC; Vic- | 41 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| V::V_DDSM | Out= Dederang to South Morang | 51 | 51 | 0 | 51 | 0.18 | 0 | 0.18 | 51 | 51 |
| | | | | | | | | | | |

| | | | _ | | | _ | | | |
|--|----------|-----|-----|-----|------|------|------|-----|-----|
| V::V_DDSM Outage = Dederang to South | | 283 | 0 | 283 | 0.98 | 0 | 0.98 | 283 | 283 |
| V::V_EPTT Outage = Eildon to Thomast | | 106 | 0 | 106 | 0.37 | 0 | 0.37 | 106 | 106 |
| V:N_MSUT_1 Outage = Murray to Upper | 52 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 3 | 3 |
| V:S SA PSS Out= Nil; Vic to SA Oscillator | v 76 | 5 | 0 | 5 | 0.02 | 0 | 0.02 | 0 | 5 |
| VMS BNMT NPS S Out = Blanche - Mt Gambier | 41 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| V^S_BNMT_NPS_S Out = Blanche - Mt Gambier | 282 | 3 | 3 | 0 | 0.01 | 0.01 | 0 | 0 | 3 |
| | | 0 | 0 | 0 | 0.01 | 0.01 | 0 | 0 | |
| VMS_BNSG_NPS_S Out = Blanche - Snuggery 1: | | • | - | • | - | - | - | • | 0 |
| V^S_CGTU_NPS_S Out=Cherry Gardens - Tung | | 5 | 5 | 0 | 0.02 | 0.02 | 0 | 0 | 5 |
| VMS_CGTU_NPS_S Out= Cherry Gardens - Tung | jkillo 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VMS_KHKN_MAXG_ Out = Keith - Kincraig 132 k\ | / 1129 | 249 | 249 | 0 | 0.86 | 0.86 | 0 | 0 | 249 |
| V^S_KHKN_MAXG_ Out = Keith - Kincraig 132 k\ | / 2481 | 335 | 335 | 0 | 1.16 | 1.16 | 0 | 0 | 335 |
| VMS_KNPW_NPS_S Out = Kincraig - Penola Wes | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V^S KNPW NPS S Out = Kincraig - Penola Wes | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | - | | 0 | | 0 | |
| VMS_NIL_MAXG_A Out = Nil; Vic to SA Long Te | | 0 | 0 | 0 | 0 | - | 0 | - | 0 |
| $VMS_NIL_NPS_SE_$ Out = Nil; Vic to SA Long Te | | 58 | 0 | 58 | 0.2 | 0 | 0.2 | 0 | 58 |
| VMS_NIL_NPS_SE_ Out = Nil; Vic to SA Long Te | | 139 | 0 | 139 | 0.48 | 0 | 0.48 | 0 | 139 |
| VMS_NIL_NPS_SE_ Out = Nil; Vic to SA Long Te | rm 419 | 52 | 0 | 52 | 0.18 | 0 | 0.18 | 0 | 52 |
| VMS NIL NPS SE Out = Nil; Vic to SA Long Te | rm 1489 | 333 | 0 | 333 | 1.16 | 0 | 1.16 | 0 | 333 |
| VMS PACP NPS S Out = One Para Capacitor; \ | ic to 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V/S_PAVC_NPS_S Out = Para SVC1; Vic to SA | 668 | 83 | 83 | 0 | 0.29 | 0.29 | 0 | 0 | 83 |
| | 533 | 46 | 46 | 0 | 0.16 | 0.16 | 0 | 0 | 46 |
| VMS_PAVC_NPS_S Out = Para SVC1; Vic to SA | | | | | | | - | - | |
| VMS_SETX_NPS_S Out = One South East | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V^S_SETX_NPS_S Out = One South East | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VMS_SETX_NPS_S Out = One South East | 249 | 15 | 15 | 0 | 0.05 | 0.05 | 0 | 0 | 15 |
| VMS_SEVC_NPS_S Out = One South East SVC; | Vic 361 | 4 | 4 | 0 | 0.01 | 0.01 | 0 | 0 | 4 |
| V^S_SEVC_NPS_S Out = One South East SVC; | Vic 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VMS_TB35_NPS_S Out = Tailem Bend one 275 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VMS TB35 NPS S Out = Tailem Bend one 275 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Õ |
| V/S TBCP NPS S Out= Tailem Bend 100MVAr | | 29 | 0 | 29 | 0.1 | 0 | 0.1 | 0 | 29 |
| | • | 192 | 0 | 192 | 0.67 | 0 | 0.67 | 0 | 192 |
| VMS_TBCP_NPS_S Out= Tailem Bend 100MVAr | | | | | | | | | |
| V/\S_TBCP_NPS_S Out= Tailem Bend 100MVAr | | 426 | 0 | 426 | 1.48 | 0 | 1.48 | 0 | 426 |
| VMS_TBCP_NPS_S Out= Tailem Bend 100MVAr | | 206 | 0 | 206 | 0.72 | 0 | 0.72 | 0 | 206 |
| V^S_XCGTU_NPS_ Out=Cherry Gardens - Tung | killo 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V^SML_NSWRB_2 Outage = NSW Murraylink | 181 | 160 | 0 | 160 | 0.56 | 0 | 0.56 | 160 | 160 |
| V_HYML1_4 Out = Heywood to Mooraboo | ol 3 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 2 | 2 |
| V_HYML1_5 Out = Heywood to Mooraboo | ol 2 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 2 | 2 |
| V_HYMO2_1 Out = Heywood to Mortlake | | 45 | 0 | 45 | 0.16 | 0 | 0.16 | 45 | 45 |
| V>>N SMTXF2 Outage = South Morang | 171 | 103 | 0 | 103 | 0.36 | 0 | 0.36 | 103 | 103 |
| _ | | | 0 | | | 0 | | | |
| V>>N_SMTXH1 Outage = South Morang | 27 | 24 | - | 24 | 0.08 | - | 0.08 | 24 | 24 |
| V>>N_SMTXH2 Outage = South Morang H2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>>N-LTMS_1 Out= Lower Tumut-Murray(6 | | 25 | 0 | 25 | 0.09 | 0 | 0.09 | 25 | 25 |
| V>>N-LTMS_4 Out= LowerTumut-Murray(6) | 6), 2 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 2 | 2 |
| V>>N-MSUT_2 Out= Murray-Upper Tumut(6 | 5), 27 | 24 | 0 | 24 | 0.08 | 0 | 80.0 | 24 | 24 |
| V>>N-MSUT_4 Out= Murray-UpperTumut(69) | 5), 54 | 20 | 0 | 20 | 0.07 | 0 | 0.07 | 20 | 20 |
| V>>N-NIL_HA Out = Nil, avoid Murray to Up | | 921 | 0 | 921 | 3.2 | 0 | 3.2 | 0 | 921 |
| V>>N-NIL_HB Out = Nil, avoid Murray to Lo | | 26 | 0 | 26 | 0.09 | 0 | 0.09 | 0 | 26 |
| V>>N-NIL_HG Out = Nil, avoid Murray to Up | | 16 | 0 | 16 | 0.06 | 0 | 0.06 | 0 | 16 |
| | | | • | | | ū | | • | |
| V>>N-NIL_HH Out = Nil, avoid Murray to Lo | | 34 | 0 | 34 | 0.12 | 0 | 0.12 | 0 | 34 |
| V>>S_BGP_RBTUN Out= Bungama - Para 275 k | | 4 | 4 | 0 | 0.01 | 0.01 | 0 | 0 | 4 |
| V>>S_BP_RBTU- Out= Brinkworth - Para line; | 12 | 12 | 0 | 12 | 0.04 | 0 | 0.04 | 12 | 12 |
| V>>S_BP_RBTU- Out= Brinkworth - Templers | 14 | 10 | 10 | 0 | 0.03 | 0.03 | 0 | 0 | 10 |
| V>>S_CGTB_TBTU_ Prior Outage = Cherry Garde | ens - 83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>>S DB RBTU- Out= Davenport - Brinkworth | | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 0 | 4 |
| V>>S HYML 1 Out = Heywood - Moorabool | | 68 | 0 | 68 | 0.24 | 0 | 0.24 | 68 | 68 |
| V>>S_HYML_2 Out = Heywood - Moorabool | | 70 | 0 | 70 | 0.24 | 0 | 0.24 | 70 | 70 |
| V>>S_KHKN_NIL_S Out = Keith - Kincraig 132 k | | 0 | 0 | 0 | 0.24 | 0 | 0.24 | 0 | 0 |
| | | | 0 | | | 0 | 0 | 0 | |
| V>>S_NIL_KHTB1_K Out = Nil. Prevent Keith - Ta | | 0 | • | 0 | 0 | ū | - | • | 0 |
| V>>S_NIL_KHTB2_K Out = Nil. Prevent Keith - Ta | | 71 | 0 | 71 | 0.25 | 0 | 0.25 | 0 | 71 |
| V>>S_NIL_NIL_SGK Out= Nil, Limit all other | 97 | 51 | 0 | 51 | 0.18 | 0 | 0.18 | 0 | 51 |
| | | | | | | | | | |

| V O NIII OETD K | Out Nil Descript Kalib Talles | 040 | 444 | 0 | 444 | 0.4 | • | 0.4 | • | 444 |
|-----------------|------------------------------------|--------------|---------|----|---------|------|------|------|-----|-----|
| | Out = Nil; Prevent Keith - Tailem | 212 | 114 | 0 | 114 | 0.4 | 0 | 0.4 | 0 | 114 |
| V>>S_RBTU_N- | Out= Nil; avoid O/L Waterloo | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>>S_RBTU2_BRPA | Out = Robertstown - Para and | 7 | 7 | 7 | 0 | 0.02 | 0.02 | 0 | 0 | 7 |
| V>>S_RBTU2_DVB | Out = Robertstown - Para and | 22 | 22 | 22 | 0 | 0.08 | 0.08 | 0 | 0 | 22 |
| V>>S TBTU TBCG | Prior Outage = Tailem Bend - | 24 | 4 | 4 | 0 | 0.01 | 0.01 | 0 | 0 | 4 |
| | Out= Bendigo to Shepparton 220 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>>SML_NIL_1 | Outage = Nil, limit Vic generators | 13 | 10 | 0 | 10 | 0.03 | 0 | 0.03 | 0 | 10 |
| | | | | - | | | - | | - | |
| | Out = Nil, avoid O/L on the | 99 | 28 | 0 | 28 | 0.1 | 0 | 0.1 | 0 | 28 |
| | Outage = Nil, limit Vic to SA on | 163 | 115 | 0 | 115 | 0.4 | 0 | 0.4 | 0 | 115 |
| V>>SML_NIL_7B | Out = Nil, avoid O/L on the | 7 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 | 3 |
| V>>SML_NIL_7B | Outage = Nil, limit Vic to SA on | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>>SML_SMTXF2_4 | Outage = South Morang | 28 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 3 | 3 |
| V>>S- | Prior Outage = South East SVC | 8 | 2 | 2 | 0 | 0.01 | 0.01 | 0 | 0 | 2 |
| V>>V_EPMB_1B | Out = Eildon to Mt Beauty 220kV | 2 | 2 | 0 | 2 | 0.01 | 0 | 0.01 | 2 | 2 |
| V>>V EPTT 1B | Outage = Eildon to Thomastown | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Outage = Eildon to Thomastown | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Outage = Eildon to Thomastown | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 3 | 3 | 0 | 3 | - | 0 | 0.01 | 3 | 3 |
| | Outage = Eildon to Thomastown | | | | | 0.01 | - | | | |
| | Out= Keilor A2 or A4 500/220 kV | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Out= Keilor A2 or A4 500/220 kV | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>>V_KTS_TX_A3_ | Out= Keilor A3 500/220 kV txfmr, | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>>V_KTS_TX_A3_ | Out= Keilor A3 500/220 kV txfmr, | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>>V_KTSM_2_R | Outage = Keilor to South Morang | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>>V_KTSM_4_R | Out = Keilor - South Morang 500 | 26 | 4 | 0 | 4 | 0.01 | 0 | 0.01 | 4 | 4 |
| V>>V_NIL_1B | Outage = Nil, limit Vic | 355 | 87 | 0 | 87 | 0.3 | 0 | 0.3 | 0 | 87 |
| | Outage = Nil, limit Vic | 5 | 5 | 0 | 5 | 0.02 | 0 | 0.02 | 0 | 5 |
| V>>V NIL 2 P | Out = Nil, avoid pre-contingent | 14 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| | | 8 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| | Out = Nil, avoid pre-contingent | | 0 | - | • | | - | | · | 0 |
| | Out = Nil, avoid pre-contingent | 136 | • | 0 | 0 | 0 | 0 | 0 | 0 | • |
| | Out = Nil, avoid pre-contingent | 738 | 111 | 0 | 111 | 0.39 | 0 | 0.39 | 0 | 111 |
| | Outage = Nil, limit Vic | 98 | 31 | 0 | 31 | 0.11 | 0 | 0.11 | 0 | 31 |
| V>>V_NIL_2B_R | Out = Nil, avoid pre-contingent | 1051 | 52 | 0 | 52 | 0.18 | 0 | 0.18 | 0 | 52 |
| V>>V_NIL_2B_R | Out = Nil, avoid pre-contingent | 423 | 102 | 0 | 102 | 0.35 | 0 | 0.35 | 0 | 102 |
| V>>V_NIL_5 | Out = Nil, avoid O/L either | 93 | 43 | 0 | 43 | 0.15 | 0 | 0.15 | 0 | 43 |
| V>>V_NIL_5 | Out= NIL, avoid O/L either | 555 | 351 | 0 | 351 | 1.22 | 0 | 1.22 | 0 | 351 |
| | Out = Nil, avoid O/L South | 57 | 13 | 0 | 13 | 0.05 | 0 | 0.05 | 0 | 13 |
| V>>V_NIL1A_R | Out = Nil, avoid O/L a Dederang | 1217 | 150 | 0 | 150 | 0.52 | 0 | 0.52 | 0 | 150 |
| V>>V_NIL1A_R | Out = NIL, avoid O/L a Dederang | 686 | 150 | 0 | 150 | 0.52 | 0 | 0.52 | 0 | 150 |
| | | 4 | | 0 | | | 0 | | • | |
| | Out= Rowville to Thomastown | • | 2 | - | 2 | 0.01 | ŭ | 0.01 | 2 | 2 |
| | Out= Rowville to Thomastown | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Outage = One South Morang- | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>>V_SMTT1_2 | Out= South Morang to | 126 | 53 | 0 | 53 | 0.18 | 0 | 0.18 | 53 | 53 |
| V>>V_SMTXF2_6 | Out= South Morang F2 500/220 | 204 | 150 | 0 | 150 | 0.52 | 0 | 0.52 | 150 | 150 |
| V>>V_TTS_B1_2 | Out= Thomastown No. 1 220 kV | 40 | 22 | 0 | 22 | 0.08 | 0 | 0.08 | 22 | 22 |
| V>>V TTS B2 SMT | Out= TTS No. 2 220 kV bus | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>>V TTS B3 2 | Out= Thomastown No. 3 220 kV | 140 | 98 | 0 | 98 | 0.34 | 0 | 0.34 | 98 | 98 |
| | Out= TTS No. 3 220 kV bus, | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Out= TTS No. 1 220 kV bus, | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| | | | • | 0 | | - | 0 | | | 22 |
| | Out= TTS No. 1 220 kV bus, | 27 2 | 22 0 | • | 22 0 | 0.08 | ŭ | 0.08 | 22 | 0 |
| | Out= TTS No. 1 220 kV bus, | - | • | 0 | • | 0 | 0 | 0 | 0 | • |
| | Out= multiple outage - Eildon to | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>>V-MSUT_1 | Out= Murray-UpperTumut(65), | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>>V- | Out= Dederang to South Morang | 8 | 5 | 0 | 5 | 0.02 | 0 | 0.02 | 5 | 5 |
| V>SML_BUDP_1 | Outage = Buronga to Balranald | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>SMLBAHO1 | Out = Ballarat to Horsham, or | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>SMLBAHO4 | Out = Ballarat to Horsham or | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>SMLBEKG | Outage = Bendigo to Kerang or | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| V>SMLHORC1 | Out = Horsham to Red Cliffs | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V>SMLKGRC1 | Out = Kerang to Redcliffs 220kV | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| ., | | • | | • | | • | J | ŭ | • | • |

| V>SMLKGRC1 | Outage = one Kerang to Red | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---------------|----------------------------------|--------|-------|------|-------|-------|------|-------|------|-------|
| V>SMLKGRC2 | Out = Kerang to Redcliffs 220kV | 42 | 20 | 0 | 20 | 0.07 | 0 | 0.07 | 20 | 20 |
| V>SMLKGRC2 | Out = Kerang to Redcliffs 220kV | 43 | 30 | 0 | 30 | 0.1 | 0 | 0.1 | 30 | 30 |
| VN::DDMS | Outage = Dederang to Murray | 185 | 11 | 0 | 11 | 0.04 | 0 | 0.04 | 11 | 11 |
| VS_100 | Victoria to SA on VicSA upper | 7 | 3 | 0 | 3 | 0.01 | 0 | 0.01 | 0 | 3 |
| VS_130 | Victoria to SA on VicSA upper | 8 | 6 | 0 | 6 | 0.02 | 0 | 0.02 | 0 | 6 |
| VS_140 | Victoria to SA on VicSA upper | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VS_250 | Victoria to SA on Heywood upper | 909 | 101 | 0 | 101 | 0.35 | 0 | 0.35 | 101 | 101 |
| VS_350 | Victoria to SA on VicSA upper | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VS_HYTS_TX | Victoria to SA on VicSA upper | 182 | 31 | 0 | 31 | 0.11 | 0 | 0.11 | 0 | 31 |
| VSML_000 | Vic to SA on ML upper transfer | 498 | 38 | 2 | 36 | 0.13 | 0.01 | 0.13 | 36 | 38 |
| VSML_010 | Vic to SA on ML upper transfer | 209 | 64 | 0 | 64 | 0.22 | 0 | 0.22 | 64 | 64 |
| VSML_220 | Vic to SA on ML upper transfer | 326 | 133 | 0 | 133 | 0.46 | 0 | 0.46 | 0 | 133 |
| VSML_VFRB_OFF | Out=Nil, Vic to SA on Murraylink | 5 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| | | 744564 | 15933 | 1362 | 14571 | 55.17 | 4.72 | 50.45 | 3694 | 15933 |