

ElectraNet Pty Limited
ABN 41 094 482 416
ACN 094 482 416

PO Box 7096 Hutt Street Post Office Adelaide 5000 South Australia

- T (08) 8404 7966
- **F** (08) 8404 7956

W www.electranet.com.au

M m.electranet.com.au

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Australian Energy Regulator GPO Box 520 Melbourne VIC 3001

Dear Sir,

# Performance Incentive Scheme Report for 2012 Calendar Year

Herewith I submit ElectraNet's annual Service Targets Performance Incentive Scheme (STPIS) report for the 2012 calendar year, which has been prepared in accordance with the applicable guidelines and revenue determination.

ElectraNet is required to report actual performance for the period 1 January to 31 December 2012 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 service component parameters and the MIP respectively.

# Discussion of specific exclusions

# 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 2012 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 were 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 2012 calendar year.

## Third party events – customer

For the 2009, 2010 and 2011 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.

There were no such outages during the period.

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

## Coordinated generator outages in accordance with Connection Agreements

Between 28 May 2012 and 7 June 2012 the Clements Gap Windfarm was connected to the network via a temporary arrangement to avoid the necessity to constrain the generator to zero output in accordance with its connection agreement during construction works at the Bungama substation.

The temporary arrangement was pursued to enable a level of output to be achieved by the windfarm.

Please refer to the supporting evidence "FW: Endorsement – ElectraNet efforts for transmission availability" in which the customer, Pacific Hydro, expresses its support for ElectraNet's efforts to maximise dispatch during the outage.

As coordinated generator outages are excluded from the scheme ElectraNet seeks the exclusion of the associated dispatch intervals.

## Force majeure events

## Friday, 30 November 2012 - Davenport - Brinkworth 275kV line

On Friday, 30 November 2012 at 16:53, the Davenport - Brinkworth 275kV line tripped and locked out after an extreme weather event passed through the line. In the aftermath of high winds and storm activity, it was observed that tower numbers 57, 58, 59, 60, 61 and 62 had collapsed and structure 63 remained standing but with visible structural damage. At the other end, tower 56 remained standing with no visible damage. From the recorded weather data and field observations, localised high intensity winds caused the structural damage. Weather station recorded winds in excess of 127km/h, this is exceeded the design parameters that applied when the line was built in 1960.

As discussed with AER staff due to the nature and timing of the event and the subsequent restoration an event investigation report is currently being developed and will be provided in the near future.

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 control the impact of the event and used all available resources to expedite the replacement of the structures.

## Monday 5 November 2012 - Templers West 275/132kV transformer

On Monday 5 November 2012 at 18:46 a catastrophic internal failure of the Templers West 275/132kV transformer occurred. This resulted in the Templers - Dorrien 132kV line being de-energised for the duration of the transformer replacement.

The Templers West-Dorrien line connects the low voltage side of Templers West TF2 to Dorrien. This line remained out of service for the duration of the transformer replacement because the transformer is the singular point of connection. The Templers West-Dorrien line was returned to service at 13:07 on 12 December 2012. The replacement Templers West 275/132kV transformer was loaded at 11:10 on 13 Dec 2012. Notwithstanding the

transformer outage the transmission line remained available for return to service at all times.

The failed transformer has been returned to the manufacturer for assessment.

The event was unforeseeable and its impact extraordinary. Catastrophic infantile transformer failures in service are rare and, absent negligence on the part of the TNSP, would satisfy any reasonable definition of force majeure. ElectraNet has not experienced an event of this nature before.

ElectraNet could not have prevented the event but worked to effectively control the impact of the event and used all available resources to expedite the replacement of the transformer.

As discussed with AER staff due to the nature and timing of the event and the subsequent restoration a confidential investigation report is currently being developed. ElectraNet will liaise with AER staff with respect the provision of additional evidence to support this claim of force majeure.

## **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 2012 calendar year.

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

#### **Audit of Performance**

In its final decision with respect to 2011 calendar performance the AER reiterated the need for supporting evidence to be provided with the annual report. Following discussions with AER staff ElectraNet has endeavoured to provide a reasonable level of supporting information with this submission.

Full access to all relevant systems and reports to support this application will be made available to the auditor if appointed by the AER. In the event that a face to face audit is not progressed the use of ElectraNet's web based video conferencing system is proposed.

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,

D. L. Cyslf

Simon Appleby

**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	Collar Target		Revenue at Risk	Performance (Without exclusions)	Performance (With exclusions)							
S1	Total transmission circuit availability	99.10%	99.47%	99.63%	0.30%	97.806323%	98.463696%							
S2	Critical circuit availability – peak	98.52%	99.24%	99.51%	0.20%	98.820141%	99.621571%							
S3	Critical circuit availability – non-peak (zero weighting)	98.88%	99.62%	99.95%	0.00%	98.907912%	99.721376%							
S4	Loss of supply event frequency ( >0.05 system minutes )	11	8	6	0.10%	8	6							
S5	Loss of supply event frequency ( >0.2 system minutes )	6	4	2	0.20%	6	5							
S6	Average outage duration (minutes)	119	78	38	0.20%	431	122							

Revenue Determination 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	2012								
Financial year to									
affect revenue:	2013/14								
Date prepared:	11 January 2013								
Revision date:									

Number of critical circuits	19 April 1900
Number of non-	
critical circuits	21 January 1900

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	179.5	

# 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.

Event proposed for exclusion	Description of the event and its impact on the network and performance  Smill of the event Such as the million of any third patien, the million of the TOTP, asserts claraged as strength  Conserved.	Cause of the eyest  It is description of the sauce of the runs's	Stat date and time of event. Stat date and time of event	Control Primary  See See See See See See See See See Se	Shactive plant or characteristic or characterist	Resource for exclusion request full details of the resource for exclusion request 20xxxx function is reference to the details of the resource for exclusing time resets. 20xxxx function is reference to the defined continuous and explaint less function function follows.  2 x 10xxxx functions follows: 2 x 2 x 2 x 2 x 2 x 2 x 2 x 2 x 2 x 2	y positio futbor distato of an exclusion ment. TISP to positio informace.	Customer Request  Section in results in the section of the section
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FORD - NORTHERN POWER STATION 128/VLINE FORD - NORTHERN POWER STATION 128/VLINE	An on the board with a sign of the second wi	Custome Request Customer Request Customer Request	01003012 12:54:00 01032012 15:40 03003012 13:24:00 05:002012 15:40	DIANFORD - NORTHERN POWER STATION 1286/ LINE OF PLAYFORD - NORTHERN POWER STATION 1286/ LINE	NA 292 NA 230	1.1 Dragues Tenenistics Asset 1.1 Unregulated Tenenistics Asset 1.1 Unregulated Tenenistics Asset	Motern part filter out to the control of the contro	557-22846 559-21152 559-21152 559-21152 559-21152
FORD - NORTHERN POWER STATION 128V LINE FORD - NORTHERN POWER STATION 128V LINE RRY GARDENG - MT BARKER 128V LINE	Isolation for Northern Proved Station Isolation for Northern Proved Station Outside of 1 minute Outside of 1 minute	Customer Request  Customer Request  Listerino	21003012 085400 21002012 15:16 06032012 10:20:00 08032012 14:41 14032012 14:52:00 14032012 14:52	00 PLAYFORD - NORTHERN POWER STATION 100KY LINE 00 PLAYFORD - NORTHERN POWER STATION 100KY LINE 00 CHERRY GARDING - MT BARKER 100KY LINE 00 CHERRY GARDING - MT BARKER 100KY LINE	NA 637 NA 5236 NA 0.00	1.1 Oraquiated Transmission Asset 1.1 Oraquiated Transmission Asset Transieri internations less than one (1) minute	lacision for Augusta Operators lacision for Augusta Operators Successful Recloser-due to Enthrinol/toron	SSP 21152 T
A - ROBERTSTOWN 295KV LINE A - BLINGAMA 275KV LINE B - BLINGAMA 275KV LINE	Cutage < 1 minute  Outage < 1 minute  Dutage < 1 minute	StormWind StormWind StormWind	\$400,0012 17:42:00 \$400,0012 17:42 \$400,0012 17:52:00 \$400,0012 17:55 \$400,0012 17:52:00 \$400,0012 17:55	00 PARA-ROSERTSTOWN2750VLNE 00 PARA-BUNGMM2750VLNE	NA 0.00 NA 0.00	Transient interruptions less than one (1) minute		0
EXTROMOR JOHN LONG THE STREND 128KV LINE 1 ENDORT - NORTHERN POWER STATION 275KV LINE 2 ENDORT - NORTHERN POWER STATION 275KV LINE 2	Outage 4 1 minute Outage 4 1 minute toolston for Northern Power Station	Lightning Customer Request	14032012 22.51:00 14032012 22.51 19032012 09:45:00 19032012 12:12	00 ROSERTSTOWN - NORTH-WEST BEND 122KV LINE 1 00 DAVENPORT - NORTH-ERN/POWER STATION 279KV LINE 2	NA 0.00 NA 2.45	Transiers (Interruptions less than one (1) minute  1.1 Unregulated Transmission Asset	Security Security of Security	SSP 23286
INPORT - NORTHERN POWER STATION 258V LINE 2 RAYLING REDCLEF OS - MURRAYLING BERRICIS 150KV LINE RAYLING REDCLEF OS - MURRAYLING BERRICIS 150KV LINE	laciation for hardware Power Station Supervisory shadown / switching for Grayling Personnel Supervisory shadown / switching for Grayling Personnel	Cartonee Request  Cartonee Request  Customer Request  Customer Request  Customer Request  Customer Request  Customer Request  Customer Request	27002012 10:38100 271002012 14:47 28002012 07:11:00 28002012 18:16 01042012 14:20:00 01042012 18:36	00 DAVENPORT - NORTHGEN POWER STATION 279KY LINE 2 00 MARRAYLINK REDCLEFF CS - MARRAYLINK GEFRI CS 150KY LINE 00 MARRAYLINK REDCLEFF CS - MARRAYLINK GEFRI CS 150KY LINE	NA 4.13 NA 11.08 NA 5.27	1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset	Badalon for Augusta Operations Badalon for Grayling Personnell Badalon for Grayling Personnell	SSP 21286 SSP 21286 SSP 21286 SSP 21286 SSP 2128 SSP 2128
- TORRENS SLAND NORTH-66KV LINE 2 RENS SLAND NORTH- OPS GT1 - 266KV LINE RENS SLAND NORTH- OPS GT1 - 466KV LINE	tablation to carry out maintenance on Quarantine Power Station tablation to carry out maintenance on Quarantine Power Station technique to page our palameters on Quarantine Power Station	Customer Request Customer Request Customer Request	02042012 02:44:00 05042012 17:44 02042012 02:44:00 05042012 17:44 02042012 02:44:00 05042012 17:44	TIPS - TORRENS ISLAND NORTH WKY LINE 2 TORRENS ISLAND NORTH - OPS GT1 - 2 WKY LINE TORRENS ISLAND NORTH - OPS GT1 - 4 WKY LINE	NA 80.00 NA 80.00	1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset	Isolation for Quarantine Personnel  totation for Quarantine Personnel  totation for Quarantine Personnel	PON 6419 & SSP 23373 PON 6419 & SSP 23373
ERTSTOWN - NORTH WEST SEND 120KV LINE 1 RSH - MURRAYLINK SERRI 120KV LINE	Successful reclase for a fault on Robertstown - North West Band 122W line 1 Occurred at the same size as the Robertstown - North West Band 122W line 1 reclase	Design/Construction Searn/Wind	02042012 10:07:00 02:042012 10:07 02:042012 10:07:00 02:042012 10:28	00 ROBERTSTOWN - NORTH-WEST BEND 130KV LINE 1 00 MONASH - MURRAYLINK BERRI 130KV LINE	NA 0.00 NA 0.35	Transier interuptions less than one (1) minute 1.1 Unregulated Transmission Asset	isolation for Commented Personnell Successful Recipies due to prosection malgands on Richemoteur - North West Band 150AV file 2 Top calocidient with the loss of Industriations'- North West Band 150AV file 1 tip	PARTITE IN THE
ERTSTOWN - NORTH WEST BEND 12KV LINE 1 SETSTOWN - NORTH WEST BEND 12KV LINE 1 KSH - MLERAYLINK BERRI 12KV LINE	Unleaves streamy out of service on a premier outage 2000 when significant the time.  Outage < 1 minute.  Occurred at the same time as the Robertstown - North West Bend 120M/line tribs.	Lightning StormWind StormWind	02042012 1818:00 02042012 1818:0 02042012 1818:00 02042012 1818:0	00 ROBERTSTOWN-NORTHWEST BEND 125V LINE 1 00 MONGH-MURRAYUNG BERS! 125V/LINE	NA 9.38 NA 0.00 NA 0.00	Transiers transplore tensor transiers (1) ninute  1.1 Danacased Transmission Asset	Line was silenarly out of ancies on a planned comps (2004 when Epitolog stock the line Successful Recision also to proceeding an algoration on Robertonson—Natrit West (2004 and 150/0 fee 2) Title coincident with the loss of Bobertonson—Natrit West Band 150/0 fee 1 so	
HER HARDRAM, INC. SERBIT 1990/ LINE  TORSENS SLAND NORTHHERY LINE 1  DTA - HELLET HELL WIND FARM 2750/ LINE  NAMPORET - DELICANPORT GT12 2950/ LINE  NAMPORET - DELICANPORT GT12 2950/ LINE  NAMPORET - DELICANPORT GT12 2950/	Applicio so carry out regimenance on Quarantine Power Station applicio line as requested from Windfams operators application for international Power application for international Power	Serve-Wind Customer Request Customer Request Customer Request Customer Request Customer Request	10040012 08:50:00 13042012 18:50 11042012 07:06:00 11:042012 18:37	00 TPS - TORRENS ISLAND NORTH MIKYLINE 1 00 MOKOTA - HALLET HEL WIND FARM 275KV LINE 00 LINAU POINT - DELIVAN POINT GT 11 275KV LINE	NA 80.10	1 1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset	And the second s	PON 6420 & SSP 22374 SSP 19720 PON 6417 & SSP 22488 PON 6414 & SSP 22489
CAN POINT - PELICAN POINT GT16 299KV LINE PMPLE - WATTLE POINT 129KV LINE		Customer Request Customer Request	12042012 18:32:00 15042012 18:25 16042012 09:22:00 16042012 15:25	00 PELICAN PONT - PELICAN PONT GT18 275KV LINE 00 DALRYMPLE - WATTLE PONT 122KV LINE	NA 9556 NA 4737 NA 6056 NA 5056 NA 5566 NA 5566	1.1 Urwguisted Transmission Asset 1.1 Urwguisted Transmission Asset	Incidence for Intermedicanal Power Incidence for AGE.	PON 6614 & SSP 22489 SSP 22921
CANDONT - PELICAN POINT GT19 279KV LINE FAMPLE - WATTLE POINT 120KV LINE FLE - NORTH BROWNHALL WINDS-PRIM279KV LINE FAMPLE - WATTLE POINT 120KV LINE - OSBOORE - OSPL GRKY LINE 2 OVER - PHALET 250KV LINE 2	Control of the Contro	Customer Request Customer Request	27042012 12:51:00 27:042012 16:48 28042012 07:06:00 28:042012 17:18	DALRAMPLE - WATTLE POINT 129KV LINE 00 NEW OSBORNE - OCPL 48KV LINE 2	NA 2.96 NA 10.22	1.1 Dragues Tenenistics Asset 1.1 Uraquest Tenenistics Asset 1.1 Uraquest Tenenistics Asset	Boolean so record to resistant to visit in special operations  Boolean for Visit In The Visit In Visit In Operation  Boolean for OCPL	SSP 22821 SSP 97722 SSP 23508 SSP 23508
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PARTE - WATTLE POINT 120KV LINE IRRA - LAKE SONNEY WIND FARM STAGE 29 20KV LINE IRRA - LAKE SONNEY WIND FARM STAGE 29 20KV LINE	Unplanned outage when energising TF1 at Addression West  Unplanned outage due to Infigen personnel (wind farm operators)  Unplanned outage of unplanned series		10052012 14:38:00 10052012 15:36 15052012 15:54:00 16:052012 13:37	DALRYMPLE - WATTLE POINT 122KV LINE  MAYLERA - LIKE BONNEY WIND FARMSTAGE 28 28KV LINE  OF THE POINT THE WORLD CHIEF THE POINT INC.	NA 1.22 NA 0.97 NA 21.72	1.1 Urregulated Transmission Asset 1.2 Third party outge	Urplanned outage when energising TF1 at Andicosan West Urplanned outage due to Intiges personnel performing connect relations for the Wind Fams Undersonnel resource outside the Connect relations for the Wind Fams Undersonnel resource outside the Connect relationship of the Connect	2609-Event_Investigation_Technical_Report
A - TORRENS SLAND NORTH SKYLINE 1 A - TORRENS SLAND NORTH SKYLINE 2	backers usually because in the second to tear modifications for Black Stan System toolston for Crigin Personnel to tear modifications for Black Stan System toolston for Crigin Personnel to tear modifications for Stack Stan System	Customer Request Customer Request	17062012 08:48:00 17062012 14:44 17062012 08:48:00 17:062012 14:44	00 TPS A TOPRENG SLAND NORTH 66KY LINE 1 00 TPS A TOPRENG SLAND NORTH 66KY LINE 2	NA 592 NA 592	1.1 Dragues Tenenistics Asset 1.1 Uraquest Tenenistics Asset 1.1 Uraquest Tenenistics Asset	supplements and professional access  Backson for Christian Personnel  Backson for Christian Personnel	2609-Event_Investigation_Technical_Repoil 2610-Event_Investigation_Technical_Repoil 559-23609 559-23609
IPIC DAM NORTH- PRIBE I SEVUENE  A TORRISON GROUND NARTH MEMOVERS 1  A TORRISON GROUND NARTH MEMOVERS 2  BL CESSANTS OF HE SEVUEN MEMOVERS 2  BL CESSANTS OF HE SEVUENCE STATION I SEVUENE  FORD - NORTH SENIOL PRIBA TERROLINE  FORD - NORTH SENIOL PRIBATE  F	Selecting to official clare footh holden for Northern Power Station acidion for Northern Power Station acidion for Northern Power Station builds for Northern Power Station	Project Work Customer Request Customer Request Customer Request	20062012 18:29:00 34:062012 18:49 23062012 08:40:00 23:062012 17:02 34:062012 08:14:00 28:062012 15:18	00 REDHILL - CLEMENTS GAP WF 150KY LINE 00 PLAYFORD - NORTHERN POWER STATION 150KY LINE 00 OLYMPIC DAM NORTH - PMBA 150KY LINE	NA 96.30 NA 8.32 NA 90.07 NA 7.50	1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset	Off loading Clare North sub for Project Volor at Clare North with NGP 105/895 tealers To Augusta Ceperature scotton 1/2 SHP (Billion	SSP 21152 SSP 23642
INPORT-NORTHERN POWER STATES 2018/109-2		Customer Request Customer Request	34052012 00:41:00 34052012 17:11 34052012 20:38:00 34052012 21:41	DAY DOOD TO STATE OF THE STATE	NA 750 NA 105	1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset	Incidents for Augusta Operation  Routining for Affirm Science via conform season	559 21152 559 23642 559 21152 General log 1 559 2152 559 8301
RAYLING RECOLLET CIS - MURRAYLING SERRICIS 150KVLINE HEL - CLEMENTS GAP WF 120KV LINE	Supervisory shadows / switching for Goyling Personnel hadverset tip	Customer Request Design Construction	29052012 05:45:00 29052012 19:29 01062012 11:58:00 01:062012 12:25	MARRAYLINK REDCLEF CS - MARRAYLINK GERRI OS 150KV LINE 00 REDHLL - CLEMENTS GAP WF 150KV LINE	NA 1272 NA 0.45	1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset	ministration for planning Spericannel Industrian for planning Spericannel Incorrect incolution of protection during commissioning	SSP 8301
CORD. MOSTHERN FOWER STATION 1 BROWNER STATION 1	Top up sel in Chico?! Top up SF6 in Chico?! Outage <1 minute	Cricial Eventions Circuit Eventions Ligaring	11062012 12:00:00 11:062012 12:06 11:062012 12:00:00 11:062012 12:06 13:062012 22:06:00 13:062012 22:06	MAYURRA - LAKE BONNEY WIND FARM STACE 1 200V LINE  O MAYURRA - LAKE BONNEY WIND FARM STACE 1 200V LINE  O BUNGAMA - RECHUL - BRINGWORTH 1220V LINE	NA 0.97 NA 0.97 NA 0.00	1.1 Unregulated Transmission Asset     1.1 Unregulated Transmission Asset     Transmiss interruptions less than one (1) minute	Crosi Bession malmonance Cross Bession malmonance Lee accios de los Suprising	
JAMEN - NEJERIEL - BEREWINDEN Y ZEVYLES.  * - NOSSPONCHTH - SEVEN LINE -  ***OSSPONCHTH - SEVEN LINE -  ***PC DAN HORTH - PRESH TEXTYLES  ***PC DAN HORTH - PRESH TEXTYLES  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***ORCH - SEVEN LINE - SEVEN LINE -  ***ORCH - SEVEN LINE - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH - SEVEN LINE -  ***A TORRESS SEVEN DAN HORTH -	Outage vi 1 minute Black start start via Quasantine Power Station Black start start via Quasantine Power Station	Updated  George  Georg	19062012 22:06:00 13:062012 22:06 19062012 08:26:00 16:062012 12:26 19062012 08:26:00 16:062012 12:26	00 PARA-ROSEWORTHY 120V LINE 00 NEW OSBORNE-TPS LINE 4 00 NEW OSBORNE-TPS LINE 3	NA 0.00 NA 4.00	Transier interruptions less than one (1) minute 1.2 Third party outage 1.2 Third party outage	Like section due to Lightwing Boldston for Quaranties Personnell Boldston for Personnell Boldston for Personnell	PON 6477, PON 6479, PON 6479, SSP 2372
IPIC DAM NORTH - PINSA 132KV LINE IPIC DAM NORTH - PINSA 132KV LINE	2nd Party event due to an R phase to earth fault occurring on \$18,4007 2nd Party event due to an R phase to earth fault occurring near \$18,4007	Ind Plany Ind Plany	19062012 00:08:00 19062012 00:08 25062012 04:10:00 25062012 04:10	00 OLYMPIC DAM NORTH-PASSA 120V/LINE 00 OLYMPIC DAM NORTH-PASSA 120V/LINE	NA 0.00 NA 0.00	1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset	Sod Plany custops: Sod Plany custops: Sod Plany custops:	PON 6477, PON 6479, PON 6479, SSP 2272 PON 6477, PON 6479, PON 6479, SSP 2273 2616 Event, Investigation, Technical, Repon 2616 Event, Investigation, Technical, Repon 2622-Event, Investigation, Technical, Repon
A - TORRING GLAND NORTH-INVUINE 1 NOCKS - SROVYTOWN - BLANDAM 1250V LINE REPORT - NORTH-ERN POWER STATION 2260V LINE 1 REY GROSSIG - TIPS IS 2250V LINE SROOTS - MRETILEON DYNIED O STATION 1250V LINE 1	Section Control Contro	Overhand Lines / Underground Cables Customer Request	04073012 11:40:00 02073012 12:00 04073012 05:28:00 04073012 05:28 04073012 16:58:00 04073012 18:07		NA 0.48 NA 0.00 NA 1.18	1.1 Chieguated transmission Asset Transiers interruptions less than one (1) minute 1.2 Third party outage	The state of the s	2623-Event_Investigation_Technical_Repor
RRY GARDENS - TIPS B 2750V LINE ENPORT - NORTHERN POWER STATION 2750V LINE 1 ENPORT - NORTHERN POWER STATION 2750V LINE 2	Switching to allow this Bit at TPS to synctronise location for Alexa Energy to carry our prescrion manistenance at Northern Power Station location for Alexa Energy to carry out work on step up transformer.	Customer Request Customer Request Customer Request	9907,0012 12:23:00 0907,0012 15:49 1907,0012 11:12:00 21:07,0012 16:49 2907,0012 08:13:00 20:07,0012 16:22	00 CHERRY GARDENS - TPS B 275KV LINE 00 DAVENPORT - NORTHERN POWER STATION 275KV LINE 1 00 DAVENPORT - NORTHERN POWER STATION 275KV LINE 2	NA 243 NA 26652 NA 7.15	1.2 Third party outage 1.2 Third party outage 1.2 Third party outage	Allow TIPS & Unit Bit to synonosiae Isolation for Africa Creagy to perform maintenance Isolation for Africa Energy to perform maintenance	\$59-23887 \$59-2386 \$59-23865 \$59-23861 [westigetion_Technical_Sepon \$511-4-ben_[westigetion_Technical_Sepon \$59-23860
A-TORRENG SLAND NORTH SEXT USES 2 THE 2 TORRENG SEARCE - MAGEL 2790/ LINE 2	electricity, actions for the size of the productions and including a control of the size o	Sed Pany Customer Request	23073012 06:42:00 23072012 12:48 25072012 20:51:00 26072012 04:30	TIPS A TORRENS SLAND NORTH 66Y LINE 1  OD EAST TERRENS - MIGGLE 275Y/LINE  OD EAST TERRENS - MIGGLE 27	NA 6.10 NA 7.66	1.2 Third party outage 1.2 Third party outage	Maillation for Mailla Cangin profession administration  Maillation for Mailla Cangin profession administration of  Maillation for Maillation administration administration administration  (A) A free free feet and canging in great feet distinct appears  Maillation for Maillation administration administration administration  Maillation feet distinct and distinct administration administration  Maillation feet distinction and MAIII  A free feet administration and MAIII  A free feet administration and MAIII  A free feet administration and MAIII  Maillation feet administration	2621-Event_Investigation_Technical_Report SSP 23630
A - TORROUS SUAND NORTH SERVICINE 1 RENS SUAND NORTH - OPS GTS 68KV LINE	backeton for action strengt as Larry suppression interest actual or not seen in over autous backeton for action maintenance backeton for actions maintenance	Evaluation Magazine Incidence Management Incidence	07082012 09:30:00 10082012 14:01 07082012 09:30:00 10082012 14:01	00 TIPS A - TORRENG SLAND NORTH-66KY LINE 1 00 TORRENG ISLAND NORTH- QPS GTS 66KY LINE	NA NAO	1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset	Notice of Principle of Principl	557 2 6000
RRA LAKE BONNEY WIND FARMSTAGE 24 29KY LINE RRA LAKE BONNEY WIND FARMSTAGE 1 29KY LINE FORD - PORT LINCOLN TERMINAL 120KY LINE	Outside due to conv causing fashourr on A4055 Outside due to conv causing fashourr on A4055 Unplanned outsige due to ScornWind	Bestudensia Bestudensia Bestudensia Bestudensia Bestudensia	09080012 16:22:00 10082012 08:10 09080012 16:22:00 10082012 08:10 16082012 16:11:00 16082012 16:11	00 MAYLERA LAKE BONNEY WIND FARM STAGE 1A 10KY LINE 00 MAYLERA LAKE BONNEY WIND FARM STAGE 1 10KY LINE 00 SLEAFORD - PORT LINCOLN TERMINAL 110KY LINE	NA 15.90 NA 15.90 NA 0.00	1.1 Directated Transmission Asset 1.1 Unrequised Transmission Asset 1.1 Unrequised Transmission Asset	Outset due to cross causints fainhour on A4650  Outset due to cross causint fainhour on A4650  Usplanned outsige due to Storm Wind	
SOALHAE BORDET WIND FROMETTING DA SOUTH INE BORLHAER BORDET WIND FROMETTING TO SOUTH INE GOOD - PORT LINCOLN TERMINAL SOUTH INE GEH - LINCOLN TERMINAL SOUTH INE GER - LINCOLN DE SOUTH IN GER SOUTH INE BORL - LINCOLN DE SOUTH IN GENTLE SOUTH IN BORL - LINCOLN DE SOUTH IN GENTLE SOUTH IN GENTLE FORD - CONTEGORIA ROCKE SOUTH IN GENTLE BORD - CONTEGORIA ROCKE SOUTH IN	Other die R. cites control festioner in 64058 Abend die R. cites control festioner Abend die R. cites con	Secondary Systems Bassulvanias Bassulvanias	22082012 10:07:00 22082012 11:30 24082012 15:07:00 34082012 17:30 14082012 15:07:00 34082012 17:30	00 MONASH - MURRAYLINK BERRI 120V LINE 00 MAYLIRRA - LAKE BONNEY WIND FARMSTAGE 120V LINE 00 MAYLIRRA - LAKE BONNEY WIND FARMSTAGE 120V LINE	NIA 0.00 NIA 1.38 NIA 1.38	1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset	Unclaimed outside during communications work Unclaimed outside during communications work	
FORD - CATHEDRAL ROCKS 23KV LINE FORD - CATHEDRAL ROCKS 23KV LINE	Servicing solator and deconnectors Servicing leaters and deconnectors	Inclasor Maintenance Inclasor Maintenance	25082012 05:08:00 25:082012 16:10 26:082012 05:01:00 26:082012 16:01	00 SLEAFORD - CATHEDRAL ROCKS 1967 LINE 00 SLEAFORD - CATHEDRAL ROCKS 1967 LINE	NA 11.00 NA 11.00	1.1 Urwguisted Transmission Asset 1.1 Urwguisted Transmission Asset	Unclaimed custate dar in to true casaline flathouer Servicine isolater and disconnectors Servicine isolater and disconnectors  Servicine isolater and disconnectors	
ROKE GROVE - PENDLA WEST 10KV LINE INPORT - LEIGH ORSEK 12KV LINE INPORT - NORTHERN POWER STATION 27KV LINE	taclation for Origin Personnel for GT1&2 maintenance Cutage < 1 minute taclation for customer	Customer Request Overhead Lines / Underground Cables Customer Request	29082012 15:65:00 29082012 16:55 29082012 07:04:00 29082012 07:04 23082012 11:03:00 25082012 15:21	00 LADBROKE GROVE - PENCLAWEST 139N/ LINE 00 DAVENPORT - LEIGH-CREEK 139N/ LINE 00 DAVENPORT - NORTHERN POWER STATION 279N/ LINE	NA 23.17 NA 0.00 NA 4.30	1.1 Unregulated Transmission Asset Transiert interruptions less than one (1) minute 1.2 Third party outage	Easier U/O 600 Person and Economic Agents and	CCD 1300C
SCH - MURRANIAN BERRE 1200V LINE PRINTELE POINT 1200V LINE SCH - MURRANIAN BERRE 1200V LINE SCH - MURRANIAN BERRE 1200V LINE SCH - MURRANIAN BERRE 1200V LINE	Industrial tip Disect interrup from Whatie Point Wind Farm Interruphers communications failure	Communications Coreol Sed Pany Secondary Systems	26082012 12:43:00 26082012 15:67 28082012 15:54:00 01/102012 16:35 04/102012 10:38:00 04/102012 11:45	00 MONASH - MURRAYUNK BERRI 120KY LINE 00 DALRYMPLE - WATTLE POINT 120KY LINE 00 MONASH - MURRAYUNK BERRI 120KY LINE	NA 140 NA 7248 NA 110	1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset	Inadventors tric within undersakin numberiak schemen work  Direct relp from customer undersakin schemen work  Sever tric indated by intermitation communications issue	2657-Event Investigation Technical Reso
ASH - MURRAYLING BERRI 1200V LINE DWIFLE - WATTLE POINT 1200V LINE	Intermittent communications failure Outage for project work	Sed Pany Secondary Systems Secondary Systems Secondary Systems Proper Work Customer Request	64152012 12:52:00 05/152012 21:07 08/152012 10:34:00 96/152012 00:25	MONGH-MURRAYING BERRI 120KV INE  MARYMPLE - WATTLE POINT 122KV INE	NA 1.19 NA 92.25 NA 92.26 NA 92.26 NA 15/646 NA 16/646 NA 6.67 NA 6.67 NA 6.67	1.1 Unregulated Transmission Asset 1.1 Unregulated Transmission Asset	Sever tip initized by intermittent communications issue outage of unapplated fire for project work.	
INPORT - PLAYFORD A HOUSE 1200/LINE HIGH - NURRAYLINK SERRI 1200/LINE	Supervisory shubbers / switching for Gayling Personnel Allow islandors of T House Transformer by Allos Seeing Lase of communications Common Supervisory shubbers / switching for Gayling Personnel Supervisory shubbers / switching for Gayling Personnel	Red Pany Communications Cormol	11/15/2012 07:24:00 11/15/2012 13:36 16/15/2012 07:55:00 16/15/2012 08:34	00 DAVENPORT - PLAIFORD AHOUSE 120KV LINE 00 MONASH - MURRAYLINK BERRI 120KV LINE	NA 6.47 NA 1.65	1.2 Third garry cutage 1.1 Unregulated Transmission Asset	Bolision for Afets Frengy Upplanned event due to communication/consol failure	2667-Event Investigation Technical Reco
RAMLIN REDOLET DS - MERRANINK BERRICOS 1590V LINE MOCKS - KUDINA EAST 1598V LINE JANN - REDHILL - BRINNVORTH 1298V LINE HEL - CLEMENTS GAP WF 1298V LINE	Supervisory shadows / switching for Gasyling Personnel  Outage < 1 minute  Outage < 1 minute	Customer Request Lightning Lightning	99102012 14:12:00 92102012 12:46 20102012 12:52:00 20102012 12:52 20102012 22:16:00 20102012 22:16	00 MERRYLINK REDCLEF CS - MERRYLINK BERRI CS 150KV LINE 00 HEMBOCKS - KADINA BAST 120KV LINE 00 BENSAMA - REDHEL - BRINGHORTH 120KV LINE	NA 453 NA 0.00 NA 0.00	1.1 Usinguised Transmission Asset     Transiert interruptions less than one (1) minute     Transiert interruptions less than one (1) minute	the system of th	SSP #301
HLL - CLEMENT'S GAP WF 129KV LINE CAN POINT - PELICAN POINT GT12 275KV LINE ISONE GOOME - SCANN A WEST 178KV LINE	Outage < 1 minutes lacitation of Pelican Point - Pelican Point Power Station GT13 2755V line for immutational Power. Inc. in SSE is C Titl 198.  The Control of the Control	Lightning Lightning Lightning Lightning Customer Request Manager TC	20102012 221630 20102012 2216 31102012 124630 02112012 1836 31112012 114630 03112012 1236	00 REDHLL - CLEMENTS GAP WF 100V/LINE 00 PELICAN POINT - PELICAN POINT GT13-275V/LINE 00 LANGE GENIE - SENIO A WEST 100V/LINE	NA 0.00 NA 52.27	1.1 Unregulated Transmission Asset 1.2 Third party outsign 1.1 Unregulated Transmission Asset	Transiers insemption due to standard from the formation of todation of Pelican Point Pelican Point Passer Station GTY12 2054/ line for international Power.  CT transport SSS one.	SSP 19525
CAN POINT - PELICAN POINT GT19 2990V LINE ROSE GROVE - PENDLAWEST 102KV LINE - POSCEWORTHY 102KV LINE - ELL - CLEMENTS GAP WF 128KV LINE - FORT LINCOLNT FRANKEL 102KV LINE - FORT LINCOLNT FRANKEL 102KV LINE - FORT LINCOLNT FRANKEL	Section of the Control of the Contro	Lightning Communications Cortrol	66112012 161600 66112012 1616 66112012 120000 66112012 2020	00 PARA-ROSENIORTHY 120KV LINE 00 RECHUL-CLEMENTS GAP WF 120KV LINE	NA 0.00 NA 7.32 NA 2.48	Transiert inseruptions less than one (1) minute 1.1 Unregulated Transmission Asset	Transiers interruption due to accentralist. unclairend outside due to communications tallure	
THE STATE OF THE S	Outage <1 minute Upparend outage due to Statemented Upparend outage due to Statemented Upparend outage due to Statemented	StateMed StateMed StateMed Lightning Lightning	69112012 17:3200 69112012 17:32 69112012 17:3200 69112012 17:32 69112012 17:3200 69112012 15:01	00 HAMBOUS - WATER LOO 192K/ LINE 00 DARWINE - WATER PONT 192K/ LINE	NA 2.48 NA 0.00 NA 21.60 NA 0.00	Transier temptose transmission-Auser  Transier temptose tes than one (1) minute  1.1 Unregulated Transmission-Auser	Unclaimed Assistance of the State Office of Terrorises Terrorises of the State Office of Terrorises Internation of the State Office of State O	
K - BLINGAMA 205KV LINE RE NORTH - BRINKWORTH 132KV LINE ERLOO - TEMPLERS 132KV LINE	Outage <1 minute Outage <1 minute Outage <1 minute	Lightning Lightning Lightning	69110012 18:30:00 69110012 18:30 69110012 18:30:00 69110012 18:30 69110012 18:40:00 69110012 18:40	00 PARA - BUNGANA 275KV LINE 00 CLARE NORTH - BRINGWORTH 125KV LINE 00 WATERLOO - TEMPLERS 125KV LINE	NA 0.00 NA 0.00	Transiers interruptions less than one (1) minute Transiers interruptions less than one (1) minute Transiers interruptions less than one (1) minute	Unclanned outsace due to Idintina Unclanned outsace due to Idintina Unclanned outsace due to Idintina	
I. BLINGAMA 2756V LINE PLERS WEST - DORREN 132KV LINE IE NORTH - BRINKWORTH 132KV LINE	Outage < 1 minus  Delayed neutration of fire due to Templers West 276/1120/11 KO/TF 2 tault.  Outage < 1 minuse	Lightning Forced Mileum Sourn-Wind	69112012 18:46:00 09112012 18:46 09112012 18:46:00 12122012 12:07 09112012 18:46:00 09112012 18:46	00 PARA - SUNGAMA 279KV LINE 00 TEMPLERS - DORREN 128KV LINE 00 CLARE NORTH - SRINKWORTH 128KV LINE	NA 0.00 NA 0.00 NA 0.00 NA 0.00% 803 50 NA 0.00%	Transiers interruptions less than one (1) minute 1.6 Forced Majeure Transiers interruptions less than one (1) minute	Undersond laboral deat to believe  Unablement deater deat on the site believe  Undersond classe de not be site believe  Undersond classe de la laboral deate to believe  Undersond classe de laboral deate to believe  Lies tipped and reclaim of bounder laboral deater believe toute of laboral deater laboral d	
AKO - WATERLOO TERVENE	Outage <1 minute Outage <1 minute	Lightning StormWind	09/11/2012 18:52:00 09/11/2012 18:52 09/11/2012 18:57:00 09/11/2012 18:57	00 MNTARO - WATERLOO 122KV LINE 00 MNTARO - WATERLOO 122KV LINE	NA 0.00 NA 0.00	Transiert interruptions less than one (1) minute Transiert interruptions less than one (1) minute	Unpreceding and an Executived Upperson drough the SUPPRINT Upperson drough	
POCOSAN WEST - DALABRELS 150 KV LIS MOCOS - MODINE SET STUDIO LISE APOCET - PASAN 1200 V LISE - ADOSEMDETHE SINCULSE - ADOSEMDETHE SINCULSE - BOUTH EAST 2200 V LISE - BOUTH EAST 2500 V LISE - B	Outage of training	StarmWind StarmWind	65115012 21:06:00 65115012 21:06 65115012 21:08:00 65115012 21:08	00 HUMBOOKS - KAONA EAST 122KY LINE 00 DAVENPORT - PINEA 120KY LINE	NA 0.00 NA 0.00	Transiers interruptions less than one (1) minute Transiers interruptions less than one (1) minute	APP Parimer designed deuts of Statem Mind. Upplanned outsage deut to Statem Wind. Upplanned outsage deut to Statem Wind.	
N- ROSEWORTHY 128KV LINE NOOD - SOUTH EAST 275KV LINE 2 RSH - MURRAYLINK SERRI 112KV LINE	Outage < 1 minute  AFAIO request fine de-energios d'ior "lobage Control"  Internibers communications failure	Lightning Voltage Cosmol Communications Cosmol	69112012 22:48:00 69112012 22:48 14112012 09:36:00 14112012 14:20 16112012 02:28:00 16112012 02:04	00 PARA - ROSENI ORTHY 132KV LINE 00 HEYWOOD - SOUTHEAST 275KV LINE 2 00 MONASH - MURRAYLINK BERRI 132KV LINE	NA 0.00 NA 4.75 NA 0.58	Transiers interriptions less than one (1) minute  1.3 Outages to control voltages  1.1 Daveguated Transmission Austr	Deployment broage date to StrickWorld Updated and specified to StrickWorld Updated and specified to StrickWorld Updated and specified to StrickWorld ASSO request like diversigned for Voltage Control ACRES. This is due to 50 mentioner at Heyerood being of Standard.  APSO request like diversigned and specified or Control ACRES of Strick Stalker  ASSO request like diversigned and specified or Control ACRES of Stalker.	
FORD - NORTHERN POWER STATION 132KV LINE ENPORT - PLAYFORD A HOUSE 132KV LINE LEDGO - DOD'T I BO'D INTERHALL 193KV LINE	Petersities communications failure Seabning for Augusts Operators Seabning for Augusts Operators Seabning for Augusts Operators Seabning for Augusts Operators	Customer Request  Customer Request  Durbfine	20112012 08:00:00 20112012 08:03 20112012 08:01:00 20112012 08:03 00112012 12:17:00 20112012 18:03	00 PLAYFORD - NORTHERN POWER STATION 1000/LINE 00 DAVENPORT - PLAYFORD A HOUSE 1000/LINE 01 SI EADON , DOD'T INDON'N TEDMINE 1000/LINE	NA 0.05 NA 0.02	1.1 Unregulated Transmission Asset 1.2 Third party custons 1.1 Throughout Transmission Asset	un production de la superindicación de la su	SSP 18642 SSP 18642
A - ROSEWORTHY 12KV LINE WOOD - SOUTH EAST 27SKY LINE 1	Control of	Bushfire SozmitWed Voltage Comol SozmitWed	20112012 162500 20112012 1625 20112012 17:53:00 20112012 15:42	00 PARA - ROSEWORTHY 122V LINE 00 HEVWOOD - SOUTHEAST 275V LINE 2	NA 6.60 NA 0.00 NA 642 NA 0.00 NA 0.00	Transiers interruptions less than one (1) minute 1.3 Ownges to control voltages	Oceans due to bushful near the line Unicioned quantum World Unicioned quantum World De-exercises South East - Newwood No. 1 2016/V line for "Newbood country" as diseased by 455 Line 100 "November of South East - Newwood No. 1 2016/V line for "Newbood No. 2 2016/V line for "Newbo	
ROSSAN WEST - DALRAPLE 132 KVLINE RYMPLE - WATTLE POINT 122KVLINE	Outage <1 minute Outage <1 minute Outage <1 minute	Samowa Lighning Lighning	20112012 121130 20112012 1211 26112012 16:37:00 26112012 16:37 26112012 16:37:00 26112012 16:37	00 ARDROSSANWEST - DALRAPES 12/KV LINE 00 DALRAMPLE - WATTLE POINT 12/KV LINE	NA 0.00 NA 0.00	Transiers' reemplons sets than one (1) minute Transiers' intemplons less than one (1) minute Transiers' intemplons less than one (1) minute	Unicipated colorates de las Softwards Unicipated colorates de la Softwards Unicipated color	
SOLO TREFERE TRAVERE  ENDO: TREFERE TRAVERE	Outage <1 minute  Outage <1 minute  Outage <1 minute	Lightning SozenAWed StornAWed Lightning	2011;0012 20:22:00 2011;2012 20:22 2011;0012 20:25:00 2011;2012 20:25 2011;0012 06:24:00 2011;2012 04:24	00 WATERLOO - TEMPLERS 100/0 LNE 00 WATERLOO - TEMPLERS 100/0 LNE 00 HAMMOCKS - WATERLOO 100/0 LNE	NA 0.00 NA 0.00 NA 0.00 NA 0.00	Transient interruptions less than one (f) minute Transient interruptions less than one (f) minute Transient interruptions less than one (f) minute	Utroined outset due to Starry/Word	
A - ROSEWORTHY 128V LINE MOCKS - SHOWTOWN - BUNCHMA 128V LINE 189A - LAKE BONNEY WIND FARM STACK OF WAYLEY	Outage < 1 minute Outage < 1 minute Foreign outage to begans disconnector AHSSS	Liganing Liganing laster Minerance	20112012 04:28:00 20112012 04:28 20112012 05:27:00 20112012 05:27 20112012 12:48:01 20112012	00 PARA-ROSEWORTHY 120V LINE 00 HUMBOCKS - SHOWTOWN - BLINGAMA 120V LINE 00 MYURRA - LINE BONNEY WIND CHEM CTACE 19 19VV ***	NA 0.00 NA 0.00	Transiers' interruptions less than one (1) minute Transiers' interruptions less than one (1) minute 1.1 Unreadined Transmission lesses	Debrend dutas du ti letrini Upplaned autos du ti letrini Upplaned autop du ti spirini autop to tipe decomente AMSS	
MICHES WATERLOO HIBW LINE  A ROSSINGERT PRICE HER WATERLOO HIBW LINE  MICHES - BROWN TOWN - BURNINGS YERSON LINE  SARA - LAVE BORNEY WAND FAWER THROC SE SERVINE  BANK - SECONEL - BRRAWNOOTH HIBW LINE  BRAND - BROWN TOWN TOWN LINE  BROWN CHILL - BURNINGS WATERLOOM HIB WAY LINE  BROOD CHIT - BROSENTSTOWN HIB WAY LINE  - RANDAMA SORVINE  - RANDAMA SORVINE  - RANDAMA SORVINE  - BRANDAM SORVINE	Cologo + 1 Filipias  Cologo + 1 Filipias  Estal Adapt to Sugar discovered AMSIG  Estal Adapt to Sugar discovered AMSIG  Estal Adapt to Sugar discovered AMSIG  Cologo + 1 Filipias  Cologo + 1 Filipia	SnameWind Forced Miljeure	30112012 16:36:00 30112012 16:36 30112012 16:32:00 01012013 00:30	00 BLINGAMA - RECHILL - BRINKINGRITH 122KV LINE 00 BRINKINGRITH - DALEMPORT 275 KV LINE	NA 0.000 NA 0.000 NA 0.0005	Transiers interruptions less than one (1) minute 1.6 Forced Majeure	Lispaned-outage dues to demonthed  Severe storms blew over towers 64 to 60	
	Oxage < 1 minus  Cutage < 1 minus	StormWind StormWind	30113010 181900 30113012 1819 30113012 182100 30113012 1821 30113012 182800 30113012 1828	00 PARA-BUNGANA 775KVLNE 00 PARA-BUNGANA 775KVLNE	NA 0.00 NA 0.00	Transiers interruptions less than one (1) minute Transiers interruptions less than one (1) minute Transiers interruptions less than one (1) minute	Granular data of the control of the	
ADCKS - WATERLOO 128V/LINE PRINTE - WATTLE POINT 128V/LINE SELOO - SET - ROBERTSTOWN 128 V/LINE SELOO - TEMPLERS 128V/LINE A - WOOMERA 128V/LINE	Cutage v1 minute Protection out of sync Cutage v1 minute	Secondary Systems Secondary Systems Uptoring	30112012 18:8800 20112012 18:580 20112012 18:5800 04122012 11:27 20112012 18:01:00 20112012 18:01	00 HAMMOCKS - WATERLOO 150KF LINE 00 DALRYMPLE - WATELE POINT 120KF LINE 00 WATERLOO EAST - ROBERTSTOWN 120KF LINE	NA 0.00 NA 0.00 NA 0.00 NA 154.81 NA 0.00	Transiers interruptions less than one (1) minute 1.1 Unregulated Transmission Asset Transiers interruptions less than one (1) minute	Procedio influente ser locament au d'appe actionses Wante Point du not reju when Yorke perincules aux l'attendes de plus modeux Un plus de la régionné autage du la lightening Expréssionné autage du la lightening	
SPLOO - TEMPLERS 122KVLINE A - WOOMERA 122KVLINE	Outage of minute	Storm/Word Storm/Word	30112012 180400 20112012 1804 30112012 181200 20112012 1812	00 WATERLOO - TEMPLERS 120KY LINE 00 PMSA - WOOMERA 120KY LINE	NA 0.00 NA 0.00	Transiers' interruptions less than one (f) minute Transiers' interruptions less than one (f) minute	Unplanned outage due to Storm-Wind Unplanned outage due to Storm-Wind	
RI - NORTH-WEST BEND 128V/LINE 1 80 - NORTH-WEST BEND 128V/LINE 1 80CKS - SNOWTOWN - BUNGAMA 128V/LINE	Ostage 4 1 minute Ostage 4 1 minute	Lightning Lightning	20112010 10:300 20112012 19:30 20112010 20:300 20112012 20:30 0112012 09:200 0112012 09:20	00 BERRI - NORTH-WEST BEND 1000/LINE 1 00 HUMBOCKS - SNOWTOWN - BUNGHIR 1000/LINE	NA 0.00 NA 0.00	Transiers' interruptions tess than one (1) minute Transiers' interruptions less than one (1) minute Transiers' interruptions less than one (1) minute	Vaccined alone du Villerioni Universidad place de Villerioni	
ADDRS - SNOWTOWN - BUNGABA 122KV LINE L-BLINGABA 275KV LINE REO - WATERLOO 125KV LINE	Outage <1 minute  Outage <1 minute  Outage <1 minute	Lightning Lightning Lightning Lightning	01/12/01/2 10:52/00 01/12/01/2 10:52 01/12/01/2 12/21/00 01/12/01/2 12/21 01/12/01/2 12/24/00 01/12/01/2 17/24	00 HLMMOCKS - SNOWTOWN - BLINGAMA 120KV LINE 00 PARA - BLINGAMA 275KV LINE 00 MINTARO - WATERLOO 120KV LINE	NA 0.00 NA 0.00 NA 0.00	Transient interruptions less than one (f) minute Transient interruptions less than one (f) minute Transient interruptions less than one (f) minute	Unclanned custon due to lidativica	
WO - WATERLOO LEAVELINE	Oblige 1 Fillion   Oblige 2 Fillion   Oblige 3 Fillion   Oblige 4 Fillion   Oblige 4 Fillion   Oblige 5 Fillion   Oblige 6 Fillion   Oblige 7 Fi	Lightning Lightning Lightning Lightning	00130012 123600 00132012 1236 00130012 141500 00132012 1415 00130012 141500 00132012	00 MNTARO - WATERLOO 120KV LINE 00 HUMBOCKS - WATERLOO 120KV LINE 00 DIA SYMPLE, WATTH C DOM'T 120KV LINE	NA 0.00	Transiers' interruptions less than one (1) minute Transiers' interruptions less than one (1) minute 1.1 is required Transmission lesses	Unclanned outside due to Soltanino Unclanned outside due to Soltanino Caldella informativa de la companya del companya de la companya de la companya del companya de la companya del la companya de la co	
AMM - SAROOTA 12XV/LINE RAVLING REDCLEF OS - MURRAVILING SERRICOS 15XV/LINE	Outage of Indinate Supervisory shadows / switching for Grayling Personnel	Lightning Customer Request	01/12/2012 16:42:00 01/12/2012 16:42 01/12/2012 17:58:00 01/12/2012 18:01	00 BLINGAMA BAROOTA 122KV LINE 00 MLRRAYLINK REDCLIFF CS - MLRRAYLINK BERRI CS 150KV LINE	NA 0.00 NA 1.06	Transiers interruptions less than one (1) minute 1.1 Livreguized Transmission Asset	Unclained outside due to Saltanian was required and TESTANIA QUICE AND THE BOTH Included for Graphing Personnel	55P 8301
LERS WEST - PARA 275KY LINE JAIR - REDHLL - BRINKWORTH 120KY LINE	Supervisory shadown / switching for Gayling Pensoreel Outage for Vallage Costerol Deliqued resoration of line due to Templers West 295/12(211 KV TF 2 built Outage < 1 minutes Outage < 1 minutes	Customer Request Votage Commi Force Miguate StramsWind	9913000 103800 6913000 14:00 1213000 103800 1213000 11:10 1213000 14:400 1213002 14:40	00 TEMPLERS WEST - PARA 2990/LINE 00 BLINGAMA - RECHILL - BRINGHORTH 1230/LINE	NA 0.00% 24.52 NA 0.00% 0.00	1.3 Chappe to control voltages  1.6 Forced Majoure  Transiers interruptions less than one (1) minute	Link State of Section 1	
ACCION - WAIRMOOD TRAVILING MARKEL - WAIRTED FROM TRAVILING TO MARKEL - MARKEL - WAIRTED FROM TRAVILING MARKEL - CLEANING THE TRAVILING MARKEL - MARKEL	Cutago e 1 minus	StatesWind StatesWind StatesWind	12/12/2012 14:48:00 12/12/2012 14:48 12/12/2012 18:17:00 12/12/2012 18:17 12/12/2012 18:48:00 12/12/2012 18:40	00 REDHLL - CLEMENTS GAP WF 130KY LINE 00 BERRI - NORTH WEST BEND 130KY LINE 1 00 BERRI - NORTH WEST BEND 130KY LINE 2	NA 0.00 NA 0.00 NA 0.00 NA 0.00	1.1 Unrequired Transmission Asset Transiers interruptions less than one (1) minute Transiers interruptions less than one (1) minute	Diplomes sunge das is Simon-Wind Upplomes sunge das is Simon-Wind	
MREND - KETTH - 139KV LINE 1	Outage < 1 minute	StormWind	25/13/20/2 05:30:00 25/12/20/2 05:30	00 TALEMBEND - KEITH 12KV LINE 1	NA 0.00	Transiers interruptions less than one (f) minute	Usplanned outlage due to Storm/Word	
KWORTH- DAVENPORT 275 KV LINE	Capital Project Work	Link Asset Sectionmen 2009-2019 (11259) - 14 day cap acciled to previous years	\$1,000,000   7,000   7,000,000   16,71   17,000,000   16,71   17,000,000   16,71   17,000,000   16,71   17,000,000   16,71   17,000,000   16,71   17,000,000   17,000,000   17,000,000,000,000,000,000,000,000,000,0	00 SENNWORTH - DISENPORT 275 KY LINE	NA 0.00% 202.75	1.5 Carped Outsides	Cappeed appropriate outnoon duration to 2000/ers - 14 day cap applied to previous years.	
PLERS WEST - SRINKWORTH 225KV LINE SAME - SRINKWORTH 132KV LINE THIWEST BEND - MORGAN WHYALLA PS 132 KV LINE	Jobal Palast Was.  Opia Papas Was.	Unit Asset Replacement 2008-2013 (11369) - 14 day cap applied to previous years.  Unit Asset Replacement 2008-2013 (11369) - 14 day cap applied to previous years.  Unit Asset Replacement 2008-2013 (11369) - 14 day cap applied to previous years.	27032012 7-6700 27032012 15:58 31052012 9:2000 04052012 17:03 03052012 12:20:00 06052012 17:07	DISSIPATION DE L'ADRIGUEDE 2015 FE LIAS  TRANCISSI VICTO ESSENDICITA 2015 FE LIAS  TRANCISSI VICTO ESSENDICITATI 2015 FE LI  TRANCISSI VICTO ESSENDICITATI 2015 FE LI  TRANCISSI VICTO ESSENDICATI 2015 FE LI  TRANCISSI L'ADRIGUEDE 2015 FE LI  TRANCISSI L'ADRIGUED 2015 FE LI	NA. Solet a ASSESSANCE NA ASSE	1.5 Capped Outsigns 1.5 Capped Outsigns 1.5 Capped Outsigns	Considerations stated displays to 200% of 4 the consideration to considerate the consideration of the consideration and	
ERTSTOWN - NORTH WEST SEND 122 KVLINE 2 ERTSTOWN - NORTH WEST SEND 122 KVLINE 1	Capital Project Work Capital Project Work Capital Project Work Crohal Distory Mork	Unit Asset Replacement 2009-2013 (11305) - 14 day cap applied to previous years. Unit Asset Replacement 2009-2013 (11305) - 14 day cap applied to previous years. Unit Asset Replacement 2009-2013 (11305) - 14 day cap applied to previous years. Unit Asset Replacement 2009-2013 (11305) - 14 day cap applied to previous years.	08082012 17:52:00 08082012 17:57 18082012 7:40:00 27082012 14:40 00340012 17:08:00 0818012 14:40	00 ROBERTSTOWN - NORTH-WEST BEND 132 KV LINE 2 00 ROBERTSTOWN - NORTH-WEST BEND 132 KV LINE 1	NA 0.08 NA 223.05	1.5 Capped Outages 1.5 Capped Outages	Capcod acorecose outside duration to 200ms - 14 day cao acoled to cervicus wasts Capcod acorecose outside duration to 200ms - 14 day cao acoled to cervicus wasts Capcod acorecose outside duration to 200ms - 14 day cao acoled to cervicus wasts Capcod acorecose outside duration to 200ms - 14 day can acoled to previous vasts.	
NSH- NORTH WEST BEND YORK/ LINE 2		Unit Asset Regiscement 2009-2013 (1130) - 14 day cap applied to previous years.	1211.0012 12:17:00 16/11:2012 18:06	00 MONAGH - NORTH WEST SEND 129KV LINE 2	NA 101.80	1.5 Capped Outages	Cascond assertance outside designed to Address = 14 days case assertant to revision WMMI.  Cascond assertance outside duration to 200hts = 14 days case asserted to cervinous WMMI.	
LERS WEST - PARA 2790/LINE LERS WEST - BRINGWORTH 2790/LINE	Capital Project Work Capital Project Work Capital Project Work	2756// Exer Circuit Insulator Teering and Repair (AP11157) 2756// Exer Circuit Insulator Teering and Repair (AP11157)	1564000   7-2530   655000   11-0   12-0	00 TEMPLERS WEST-PARA 2990/LINE 00 TEMPLERS WEST-BRINGWORTH 2790/LINE	NA 0.00% 77.80 NA 218.05	1.5 Capped Outages 1.5 Capped Outages	Capical aconouses solites disables to 1904s; Capical aconouses obtate disables to 1904s; Capical aconouse obtate disables 1904s; Capical aconouse obtate disables 1904s;	
SANCE WAST - SRINGE ORTH 2750V LINE		zzná/V Exer Circuit Insulator Teesting and Repair (AP1115P)	08052012 811100 19052012 0920	U IMPLERS WEST - BRNOWORTH 279KV LINE	NA S1.5	1.5 Capped Outages		
RAIG - PENOLA WEST 132KYLINE	Capital Project Work	South East Dual Path Telecommunications (11216) - 14 day cap applied to previous years	27032012 7:08:00 04042012 15:39	00 KINCRAIG - PENOLA WEST 100KV LINE	NX 0.079% 200.52	1.5 Capped Outages	Capped aggregorae oursige duration to 20lifers - 14 day cap applied to previous years Capped aggregorae oursige duration to 20lifers - 14 day cap applied to previous years	
ILA WEST - SOUTH EAST 120KY LINE	Capital Project Work	South East Dual Path Telecommunications (11216) - 14 day cap applied to previous years.	11/042012 7:11:00 19/042012 14:59	00 RECENSE PENDLAWEST SORVINE  D PENDLAWEST SOUTHEAST SORVINE  D PENDLAWEST SOUTHEAST SORVINE  D PENDLAWEST SOUTHEAST SORVINE  D MT GAMEST SOUTHEAST STREET  RECENSE SOUTHEAST SORVINE  D MTGAMEST SOUTHEAST SORVINE	NA 199.80	1.0 Carrest Consum	Capital appropriate country contains a visit con appear or precise years	

	SOUTHEAST - TALEMBEND 2790/ LNE 2	Capital Project Work	South East Dual Path Telecommunications (11216) - 14 day cap applied to previous years. South East Dual Path Telecommunications (11216) - 14 day cap applied to previous years.	1408201	12 7:30:00 15/08/2012 15:00:00	SOUTH EAST - TALEMBEND 275KV LINE	NA.		31.46		1.5 Capped Outages	Ciscoed accretions outside duration to 2008ns - 14 day case accoled to convicus vesses Ciscoed accretions outside duration to 2008ns - 14 day case acceled to convicus vesses
	SOUTHEAST - TALEMBEND 275KV LINE 2 SOUTHEAST - TALEMBEND 275KV LINE 1	Capital Project Work Capital Project Work	South East Dual Path Telecommunications (11216) - 14 day cap applied to previous years	3011.001	12 11:46:00 02/12/2012 12:23:00	SOUTH EAST - TALEMISEND 275 W LINE 1	NA.		31.45 43.62		1.5 Capped Outages 1.5 Capped Outages	Casceld accretions custom duration to 200 true - 14 day can applied to devivous waves
	LEEVRE - NEW OSBORNE GBOVENE 1 LEEVRE - NEW OSBORNE GBOVENE 2	Capital Project Work Capital Project Work	Techpon 68/1/Undergrounding (98/079) Techpon 68/1/Undergrounding (98/079)	2506.001	0 82500 23072012 1117:00	LEEVIRE - NEW OSBORNE 66KV LINE 1 LEEVIRE - NEW OSBORNE 66KV LINE 2	NA.	-0.109%	01E		1.5 Capped Outages 1.5 Capped Outages	Capped appropriate outside duration to 200hrs
	TEMPLERS WEST - DORREN 128KV LINE	Capital Project Work	Templers 27SAV Substation Stage 1 (11204) - 14 day cap applied to previous years.	2002200		TEMPLERS WEST - DORREN 120V LINE	NA.	4.00%	94.0		1.5 Capped Outages	Caspeed appresses catage duration to 2000vs - 14 day cap applied to previous years
	CLARE NORTH - BRINGWORTH 1236V LINE CLARE NORTH - MNTARO 1236V LINE	Capital Project Work Capital Project Work	Clare North New 132, 206/1 Substration (10070) - 14 day cap applied to previous years Clare North New 132, 206/1 Substration (10070) - 14 day cap applied to previous years Clare North New 132, 206/1 Substration (10070) - 14 day cap applied to previous years	1405201	12 812:00 20052012 18:06:00 12 812:00 20052012 18:06:00 12 812:00 20052012 18:06:00 12 18:21:00 24:052012 17:01:00	CLASS NORTH - BRANWORTH + 12KY LINE  CLASS NORTH - 18KTARO 12KY LINE  BUNGANA - RECHLE - 15KHANDOKTH 12KY LINE  CLASS NORTH - 18KTARO 12KY LINE  CLASS NORTH - BRANWORTH 12KY LINE  CLASS NORTH - BRANWORTH 12KY LINE	NA.	-0.082%	\$51.90 \$51.92 \$4.50 \$97.97 \$97.96		1.5 Capped Outages 1.5 Capped Outages	Саррай адруждев казар Алгабо то 2004 г. 14 Му сар аррай о рожнах раж Саррай адруждев казар систем то 2004 г. 14 Му сар аррай о рожнах раж Саррай адруждев казар систем то 2004 г. 14 Му сар аррай о рожнах раж Саррай адружден казар систем то 2004 г. 14 Му сар аррай органия раж
	CLARE NORTH - MNTARO 120KV LINE CLARE NORTH - SRINGHORTH 120KV LINE	Capital Project Work Capital Project Work Capital Project Work	Clare North New 102 (2001 Substitution (10070) - 14 day cap applied to previous years Clare North New 102 (2001 Substitution (10070) - 14 day cap applied to previous years		12 8:46:00 28/08/2012 14:48:00 12 8:46:00 28/08/2012 14:28/00	CLARE NORTH - IBRIVANO 1229/ LINE CLARE NORTH - BRIVANOSTH 1289/ LINE	NA NA		197.97		1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages	Capped aggregates counting districts to 2-bits in 1-4 days cap appears a previous years.  Capped aggregates custing districts to 2-bits in 1-4 days cap applied to previous years.  Capped aggregate custing districts to 2-bits in 1-4 day cap applied to previous years.
				+			_					
	WLDNNA - YACNARIE 132KVLINE	Capital Project Work	Wudins 2dSMN 132,46kV Transformer Reinforcement (1115)	1904201	12 9/07/00 21/04/2012 12:17:00	WUDNIK-YADNARE 120KY LINE	NA.	-0.012%	123.17		1.5 Capped Outages	Capped aggregate outsign duration to 2007ms - 14 day cap applied to previous years
	TEMPLERS WEST - DORRIEN 132 KYLINE TEMPLERS WEST - DORRIEN 132 KYLINE DORRIEN - TEMPLERS 132KYLINE	Capital Project Work Capital Project Work	Domien 3nd Transformer installation (11203) Domien 3nd Transformer installation (11203)	0907.901 0908.201	0 93400 06073012 145400 0 90000 14092012 105000	TEMPLERS WEST - DORREN 192 KYLINE TEMPLERS WEST - DORREN 192 KYLINE DORREN - TEMPLERS 192KY LINE	NA. NA. NA.	-0.009%	100.50 265.83 241.65		1.5 Capped Outages 1.5 Capped Outages	Capped apprenate output duration to 1980ns Capped apprenate output duration to 1980ns
	ME BARKER - MOBILONG (NO.3 TO NO.2 MER HAVEN PLMPS)	Capital Project Work  Capital Project Work	Domlen 3nd Transformer Installation (11209) South East Backbone Telecoms Stage 2 (11528)	1808201	2 8:38:00 18/08/2012 15:57:00	MT BARKER - MOBILONG IND 3 TO NO 2 MER HAWN PUMPS	NA.	4.039%			1.5 Capped Outages 1.5 Capped Outages	Casced aconsome canae duration to 200hm  Casced aconsome canae duration to 200hm
	ME BARKER - MOBLONG (MBR-HAHNING 2 PUMP TO MOBLONG) ME BARKER - MOBLONG (MBR-HAHNING 3)	Capital Project Work Capital Project Work	South East Backbone Telecoms Stage 2 (11528) South East Backbone Telecoms Stage 2 (11528)	0210201 0910201	12 13:15:00 00/10:2012 11:32:00 12 13:30:00 00/10:2012 15:54:00	MT BARKER - MOBILONS (NO.3 TO NO.3 MER-HAHN PLAPS) MT BARKER - MOBILONS (MER-HAHNNO.3 PLAP TO MOBILONS) MT BARKER - MOBILONS (MER-HAHNNO.3)	NA NA		7.52 94.28 2.40		1.5 Capped Outages 1.5 Capped Outages	Casced aconomie outside duration to 20thys Casced aconomie outside duration to 20thys
	ME BARKER - MOBLONG (MBR-HAVNING 3) ME BARKER SOUTH - TUNGKILLO 275 KYLING	Capital Project Work Capital Project Work	South East Backbone Telecome Stage 2 (11538) South East Backbone Telecome Stage 2 (11528)	1910201			NA.		200.63 199.85		1.5 Capped Outages 1.5 Capped Outages	Cacced accreciate outside duration to 200hrs Cacced accreciate outside duration to 200hrs
	CHERRY GARDENS - TALEMBEND 299KV LINE CHERRY GARDENS - TALEMBEND 299KV LINE TALEMBEND - KETH 132 KV LINE 1	Capital Project Work Capital Project Work Capital Project Work	South East Backborn Telecoms Stage 2 (11539) South East Backborn Telecoms Stage 2 (11539) South East Backborn Telecoms Stage 2 (11539)	1911,201	12 12:18:00 05/11:2012 15:27:00 12 12:11:00 18/11:2012 15:52:00 12 12:18:00 18/11:2012 15:52:00	MT DARWER SOUTH-TUNGKLLO 255 KV LINE CHERKY GARDONS - TALEM BEND 235 KV LINE CHERKY GARDONS - TALEM BEND 235 KV LINE TALEM BEND - KEITH 122 KV LINE 1	NA. NA. NA.		50.13 50.68 50.23		1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages	Casced accreasing cases duration to 200ms Casced accreasing character to 200ms Casced accreasing character to 200ms
												with the state of
	KLEURN - NORTHFELD 275 KV LINE KLEURN - TIPS A 275 KV LINE	Capital Project Work Capital Project Work	Kibum 185 MiA Transformer Capacity Increase to 225 MiA (11211) Kibum 185 MiA Transformer Capacity Increase to 225 MiA (11211)	1911,201	12 9:00:00 01/12/2012 15:44:00 12 9:01:00 01/12/2012 15:44:00	KLBURN-NORTHFELD 275 KVLINE KLBURN-TPS A 275 KVLINE	NA NA	4.000%	294.73 294.72		1.5 Capped Outages 1.5 Capped Outages	Capped aggregate oursige duration to 198hrs Capped aggregate oursige duration to 298hrs
	MIGEL - TPS A279KVLING	Capital Project Work	TPS A 279kV Secondary Systems Replacement (11003)	2406201		100 100 100 100 100 100 100 100 100 100	NA.	0.0000			1.5 Capped Outages	Capped aggregate ourspe duration to Xillinns
	PAGA - TPGA 275 KV LING NRGEL - TPG A 275 KV LING NRGEL - TPG A 275 KV LING NRGEL - TPG A 275 KV LING	Capital Project Work	TIPS A 275kV Secondary Systems Replacement (11003)	1808201 2208201	12 7:49:00 26/09/2012 17:40:00 12 7:48:00 23/09/2012 17:40:00	MAGEL - TPS A 2050V LNS PAGEL - TPS A 2050V LNS MAGEL - TPS A 2050V LNS MAGEL - TPS A 2050V LNS	NA.	COUR	2.65 203.83 23.87		1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages	Copper aggregate company duration to stating Copper aggregate company duration to stating Copper aggregate company duration to stating
	SMOLL - TPG A 279KV LNE SMOLL - TPG A 279KV LNE	Capital Project Work Capital Project Work Capital Project Work Capital Project Work	TPS A 276V Secondary Systems Replacement (1100) TPS A 276V Secondary Systems Replacement (1100) TPS A 276V Secondary Systems Replacement (1100)	02/10/20/1	12 7:39:00 02/10/2012 16:48:00 12 17:09:00 02/11/2012 17:50:00	MAGIL - TPS A 2750V LNE MAGIL - TPS A 2750V LNE	NA.		9.15 216.69		1.5 Capped Outages 1.5 Capped Outages	Capped appregrate outsige duration to Stifters Capped appregrate outsige duration to Stifters
		Carlo		4007							150	A
	SRINOWORTH - DAVENPORT 275 KV LINE TEMPLERS WEST - BRINOWORTH 275KV LINE	Capital Project Work Capital Project Work	Link Asset Replacement 2009-2013 (11353) - 14 day cap applied to previous years. Link Asset Replacement 2009-2013 (11353) - 14 day cap applied to previous years.	2703201		BRINKWORTH - DAIENPORT 275 KV LINE TEMPLERS WEST - BRINKWORTH 279KV LINE	NA.	0.137%	7.97		1.5 Capped Outages 1.5 Capped Outages	Capped aggregate outlage duration to 26thrs - 14 day cap applied to previous years.  Capped aggregate outlage duration to 26thrs - 14 day cap applied to previous years.
	TEMPLERS WEST - PARA 275KV LINE TEMPLERS WEST - SERMOVORTH 275KV LINE	Capital Project Work Capital Project Work	2054/ East Circuit Insulator Testing and Repair (AP11157) 2054/ East Circuit Insulator Testing and Repair (AP11157)	1204201 2304000	12 7:52:00 15:04:2012 12:42:00 12 8:04:00 02:05:2012 13:42:00	TEMPLERS WEST - PARA 275KV LINE TEMPLERS WEST - BRINNOGETH 275KV LINE	NA.	40.073%	24.00 86.05		1.5 Capped Outages 1.5 Capped Outages	Capped aggregam outage duration to 26fers: (her not included in calculation as 26fers have not been reached)  Capped pagregams outage-duration to 26fers: (her not included in calculation as 26fers have not been reached)
	TEMPLERS WEST - BRINGWORTH 2750V LINE TEMPLERS WEST - BRINGWORTH 2750V LINE	Capital Project Work	2284/Eart Circuit Insulator Teering and Repoir (AP11157) 2264/Eart Circuit Insulator Teering and Repoir (AP11157)	09/05/201		TEMPLERS WEST - BRINGWORTH 279KV LINE TEMPLERS WEST - BRINGWORTH 279KV LINE	NA.		86.05 47.82		1.5 Capped Outages 1.5 Capped Outages	Capper aggregate conseque duration to advise it parts included an includation and another increase included Capper aggregate conseque duration to 2004/19 in the citizability in consequence and 2004/19 these into these insoched) Capper aggregate conseque duration to 2004/19 the excluded as this is where the project exceeds 2004/10 (
52 Critical circuit availability - peak	ME BARKER SOUTH - TUNGKULO 275 KYLING CHERRY GARDENG - TALEMBEND 275KYLING	Capital Project Work Capital Project Work	South East Backbore Telecoms Stage 2 (11528) South East Backbore Telecoms Stage 2 (11528)		12 8:17:00 34/10/2012 16:08:00 12 13:18:00 05/11/2012 15:27:00	MT DARKER SOUTH- TUNGKLLO 375 KV LINE CHERRY GARDENS - TALEM BEND 275 KV LINE	NA NA	0.140%	79.86 7.45		1.5 Capped Outages 1.5 Capped Outages	Capped aggregate compe duration to 200/es
	CHERRY GARDENS - TALEMISEND 279KV LINE SOUTHEAST - TALEMISEND 279KV LINE 2	Capital Project Work  Capital Project Work	South East Backbone Telecoms Stage 2 (11558)  South East Dual Path Telecommunications (11356) -14 day cap applied to previous years.	1911.001	12 13:11:00 19/11:2012 15:52:00	CHERRY GARDONS - TALEMBEND 275KY LINE SOUTH EAST - TALEMBEND 275KY LINE	NA.		19.00		1.5 Capped Outages 1.5 Capped Outages	
	SOUTHEAST - TALEMBEND 275KV LINE 2 SOUTHEAST - TALEMBEND 275KV LINE 1	Capital Project Work Capital Project Work	South East Dual Path Telecommunications (11216) - 14 day cap applied to previous years. South East Dual Path Telecommunications (11216) - 14 day cap applied to previous years.	1408201 3011201	12 7:30:00 15/08/2012 15:00:00 12 11:46:00 02/12/2012 12:20:00		NA NA	4.04%	19.00 8.23		1.5 Capped Outages 1.5 Capped Outages	Сиррей ардинурате окладе duration to 2/kilitra: - 14 day cap applied to previous years. Сиррей aрдинурате окладе duration to 2/kilitra: - 14 day cap applied to previous years.
	GRINOWORTH - DAVISNPORT 275 KV LING TEMPLOSO WOST - DADA 9750/V INC	Towers 56 to 52 blown down in severs atoms:  Delinant services of fine due to Temples Wash 995/19911 W/TE 9 haid:	Forced Milysum Connet Milysum	3011201	12 16:53:00 01:01:2013 00:00:00	BRINKWORTH - DAIENPORT 275 KV LINE TOUR EDS WEST , DAISH WORN I NE	NA.	0.407%	255.12		1.6 Forced Majeure	Severe storms blew over towers 56 to 62  Consumonate imperiorser follows aware
	HERMAN HERE - PORCES IN LANG.	Desired State and the same of seconds when you have 1 As 17 2 and	T-Solid Harris	5,000		TENTANG WEST - DOOD STIPLY THE					14 Facility Manager	CRITICAL DESCRIPTION USER SEE
	SRINGWORTH - DAVENPORT 275 KV LINE TEMPLERS WEST - BRINGWORTH 255KV LINE	Capital Project Work Capital Project Work	Unit Asset Replacement 2009-2013 (11352) - 14 day cap applied to previous years. Unit Asset Replacement 2009-2013 (11352) - 14 day cap applied to previous years.	1303.201	12 7:36:00 21:03:2012 18:21:00 12 7:42:00 27:03:2012 15:58:00	BRNWCRTH - DAIENPORT 275 KY LINE TEMPLERS WEST - BRNWCRTH 375KY LINE	NA NA	-0.102%	120.40		1.5 Capped Outages 1.5 Capped Outages	Cupped aggregorae oursige duration to 200/ms - 14 day cap applied to previous years. Cupped aggregorae oursige duration to 200/ms - 14 day cap applied to previous years.
	TEMPLERS WEST - PARA 2790/LINE TEMPLERS WEST - BRIMWORTH 2790/LINE TEMPLERS WEST - BRIMWORTH 2790/LINE	Capital Project Work	275AV East Circuit Insulator Teesing and Repair (AP11157)	1204201	2 7.52:00 15/042012 13:42:00 2 8:04:00 02/05/2012 10:07:00	TEMPLERS WEST - PARA 275KV LINE	NA.	0.002%	53.83		1.5 Capped Outages	Capped aggregate outage duration to 200tes: (first not included in calculation as 200tes have not been reached)
	TEMPLERS WEST - BRINGWORTH 2756V LINE	Capital Project Work Capital Project Work	205kV East Circuit Insulator Testing and Repair (AP11157) 275kV East Circuit Insulator Testing and Repair (AP11157)	0906201	2 81100 19062012 092010	TEMPLERS WEST - BRINKWORTH 179KV LINE	NA.		132.00 73.33		1.5 Capped Outages 1.5 Capped Outages	Capped aggregate outage duration to 200km; this not included in calculation as 200km; have not been reached).  Capped aggregate outage duration to 200km; this excluded as this is where the project exceeds 200km;)
Critical circuit size availability - non-pe (zero weighting)	ME BARKER SOUTH - TUNGKILLO 275 KYLINE DIERRY GARDENG - TALEMISEND 275KY LINE	Capital Project Work Capital Project Work	South East Backtone Telecome Stage 2 (11528) South East Backtone Telecome Stage 2 (11528)			MT BARKER SOUTH-TUNGKULD 275 KV LINE CHERRY GARDENS - TALEM BEND 275 KV LINE	NA NA	0.175%	120:00 42:68		1.5 Capped Outages 1.5 Capped Outages	Casced accreames outside duration to 26/fers Casced accreames outside duration to 26/fers
(acro empreng)	CHERRY GARDENG - TALEMISEND 279KV LINE	Capital Project Work										
			South East Backbone Telecoms Stage 2 (11528)	19/11/201	S 1211.00 19/112012 15:52:00	CHERRY GARDONS - TALEM BEND 2790/ LINE	NA.		43.07		1.5 Capped Outages	Cascad acorecrae outrase duration to 200hrs
	SOUTHEAST - TALEMBEND 275KV LINE 2 SOUTHEAST - TALEMBEND 275KV LINE 1	Capital Project Work  Capital Project Work  Capital Project Work	South East Dual Plath Telecommunications (11216) - 14 day cap applied to previous years.  South East Dual Plath Telecommunications (11216) - 14 day cap applied to previous years.	1408201 3011201		CHERRY GARDONS - TALEM BEND 2790/ LINE	NA NA NA	0.045%	4127 12.65 41.28		1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages	Cuesed accommon destino di unicida della con publica di provincia con la considera di considera
	SOUTHEAST - TALEMBEND 275 KV LINE 1	Capital Project Work Capital Project Work		1408201 3011201 3011201	C 121100 S0110012 155200 C 73200 S5082012 150000 C 11:800 60120012 12300 C 15:800 01012012 00000	CLERRY GARCONS - TALDH BEND 2256YLINE SOUTH EAST - TALEM BEND 2256YLINE SOUTH EAST - TALEM BEND 225 W LINE 1	NA.	0.06%	43.87 12.45		1.5 Capped Outages	Cascad acorecrae outrase duration to 200hrs
	SOUTHEAST - TALEMBEND 20'S IV LINE 1  SRINGWORTH - DWENPORT 20'S IV LINE TEMPLERS WEST - PARA 20'S IV LINE TEMPLERS WEST - PARA 20'S IV LINE	Could Project Work  Stephen Project Work  Stephen Project Work  Stephen Project Work  Stephen Stephen State 1 Access States  Stephen Stephen State 1 Access States  Stephen States States State 1 Access States  States States States States States States  States States States States States States  States States States States States States States  States	Exam Exam Dual Philip Telecommunications (11316) - 14 day rap applied to previous years Exam Exam Dual Philip Telecommunications (11316) - 14 day rap applied to previous years Forces Milipane Forces Milipane	1408201 3011201 3011201 1213201	12 121100 NH152002 15.5200 12 7-20:00 15082002 15.00:00 13 11-80:00 SH122002 12.20:00 13 15:00 SH122002 12.20:00 13 15:00 SH122002 11.00:00 13 15:00:00 131120012 11.00:00	CHESSY CANCOUS. TREATS READ ZHOWLES.  SOUTH LIGHT: THE EMBELO ZHOWLES.  SOUTH LIGHT: THE AMBIENCE THE SET UP.  SOUTH LIGHT: THE ZHOWLES.  SOUTH LIGHT: THE ZHOWLES	NA. NA. NA. NA.	-0.45% -0.430%	43.87 12.45 43.38 464.00 12.00		1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages 1.6 Forced Mijeure 1.6 Forced Mijeure	Count counts and an about 1 (Sent)  Count counts and (Sent) 1 (Sent)  Count counts and (Sent) 1 (Sent) an an anticle (Laman ent)  Count counts about (Sent) 1 (Sent) and (Sent) and (Sent) and (Sent)  Count counts about (Sent) 1 (Sent) 1 (Sent) and (Sent) and (Sent)  Counts (Sent) and (Sent) and (Sent) and (Sent)  Counts (Sent) and (Sent) and (Sent)  Counts (Sent) and (Sent) and (Sent) and (Sent)  Counts (Sent) and (
ECOS OF SUPPLY AVAILA	SOUTHEAST - TALEMBEND 275 KV LINE 1	Capital Project Work Capital Project Work	South East Dual Plan Telecommunications (11216) - 14-day cap applied to previous years South East Dual Plan Telecommunications (11216) - 14-day cap applied to previous years	1408201 3011201 3011201 1213201	C 121100 S0110012 155200 C 73200 S5082012 150000 C 11:800 60120012 12300 C 15:800 01012012 00000	CHESSY CANCOUS. TREATS READ ZHOWLES.  SOUTH LIGHT: THE EMBELO ZHOWLES.  SOUTH LIGHT: THE AMBIENCE THE SET UP.  SOUTH LIGHT: THE ZHOWLES.  SOUTH LIGHT: THE ZHOWLES	NA NA NA	4.045% 4.430%	43.87 12.45 43.38 496.00	Quantitative impart	1.5 Capped Outages  1.5 Capped Outages  1.5 Capped Outages  1.5 Forced Majeure	Cased amounted copies design to 1887 to 18 on a material surries area  Cased amounte copies design 1887 to 1881 on a material surriess area  Cased amountes cubes design 1887 to 1881 on a material surriess area  Cased amountes cubes design 1887 to 1881 on a material surriess area  Secretary to 1881 on a material secretary to 1881 on
E-COMP CAN SELECT IN VIOLE SECURITY SELECT SE	SOUTHEAST - TALEMBEND 20'S IV LINE 1  SRINGWORTH - DWENPORT 20'S IV LINE TEMPLERS WEST - PARA 20'S IV LINE TEMPLERS WEST - PARA 20'S IV LINE	Could Project Work  Stephen Project Work  Stephen Project Work  Stephen Project Work  Stephen Stephen State 1 Access States  Stephen Stephen State 1 Access States  Stephen States States State 1 Access States  States States States States States States  States States States States States States  States States States States States States States  States	Exam Exam Dual Philip Telecommunications (11316) - 14 day rap applied to previous years Exam Exam Dual Philip Telecommunications (11316) - 14 day rap applied to previous years Forces Milipane Forces Milipane	1408201 3011201 3011201 1213201	12 121100 NH152002 15.5200 12 7-20:00 15082002 15.00:00 13 11-80:00 SH122002 12.20:00 13 15:00 SH122002 12.20:00 13 15:00 SH122002 11.00:00 13 15:00:00 131120012 11.00:00	CHESSY CANCOUS. TREATS READ ZHOWLES.  SOUTH LIGHT: THE EMBELO ZHOWLES.  SOUTH LIGHT: THE AMBIENCE THE SET UP.  SOUTH LIGHT: THE ZHOWLES.  SOUTH LIGHT: THE ZHOWLES	NA. NA. NA. NA.	4.06% 4.60%	43.87 12.45 43.38 464.00 12.00	Quantitative impair to project of exclusion exercises LCS	1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages 1.6 Forced Mijeure 1.6 Forced Mijeure	Count counts and an about 1 (Sent)  Count counts and (Sent) 1 (Sent)  Count counts and (Sent) 1 (Sent) an an anticle (Laman ent)  Count counts about (Sent) 1 (Sent) and (Sent) and (Sent) and (Sent)  Count counts about (Sent) 1 (Sent) 1 (Sent) and (Sent) and (Sent)  Counts (Sent) and (Sent) and (Sent) and (Sent)  Counts (Sent) and (Sent) and (Sent)  Counts (Sent) and (Sent) and (Sent) and (Sent)  Counts (Sent) and (
Access the Source, of a central PROCULENCY Stamme of any loss of supply procurements	COUNT AST TRANSCO PTM VINE 1 DIRECTORIS CONTROL OF THE CONTROL OF	Control March 1995  Contro	Send filed had her Teleconstruction (1979). If they are applied possess pass land facilities for Commission (1979). If they are applied a pressure pass Construction Construct	1408201 3011201 3011201 1213201	12 121100 NH152002 15.5200 12 7-20:00 15082002 15.00:00 13 11-80:00 SH122002 12.20:00 13 15:00 SH122002 12.20:00 13 15:00 SH122002 11.00:00 13 15:00:00 131120012 11.00:00	CHESSY CANCOUS. TREATS READ ZHOWLES.  SOUTH LIGHT: THE EMBELO ZHOWLES.  SOUTH LIGHT: THE AMBIENCE THE SET UP.  SOUTH LIGHT: THE ZHOWLES.  SOUTH LIGHT: THE ZHOWLES	NA. NA. NA. NA.	-0.045% -0.460%	43.97  12.45  43.38  466.00  12.00  200  200  200  200  200  200	Chambasiye Jenner Impact of existence ment on 103 Patientis	1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages 1.6 Forced Mijeure 1.6 Forced Mijeure	Control records a more (more) 1900.  Control records a more 1900 1900 1900 1900 1900 1900 1900 190
SCOSS CP SUPPL TE VISION FREQUENCY  States of any base of expery pathwards	SOUTHERST - TRANSPORD SIN UNE 1  DERBONDERTH- DISCHARGE TYPE AVI LEC  THER LEGS WEST - TYPE AUTOCULES  Green proposed for exchange	Color Proper thank  Color Proper thank  Color Proper thank  Color State State State State  Color State State State State State  Color State State State State State State State State State  Color State	Send filed had her Teleconstruction (1979). If they are applied possess pass land facilities for Commission (1979). If they are applied a pressure pass Construction Construct	1408201 3011201 3011201 1213201	12 121100 NH152002 15.5200 12 7-20:00 15082002 15.00:00 13 11-80:00 SH122002 12.20:00 13 15:00 SH122002 12.20:00 13 15:00 SH122002 11.00:00 13 15:00:00 131120012 11.00:00	CONCRETE CONTROL TELES MERCHANDE TO THE CONTROL THE CO	NA. NA. NA. NA.	0.60%	43.87 12.45 43.38 464.00 12.00	Oceanitative impact of enablesian 103 Platential 3	1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages 1.5 Capped Outages 1.6 Forced Mijeure 1.6 Forced Mijeure	Count counts and an about 1 (Sent)  Count counts and (Sent) 1 (Sent)  Count counts and (Sent) 1 (Sent) an an anticle (Laman ent)  Count counts about (Sent) 1 (Sent) and (Sent) and (Sent) and (Sent)  Count counts about (Sent) 1 (Sent) 1 (Sent) and (Sent) and (Sent)  Counts (Sent) and (Sent) and (Sent) and (Sent)  Counts (Sent) and (Sent) and (Sent)  Counts (Sent) and (Sent) and (Sent) and (Sent)  Counts (Sent) and (
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Some of regular reasons of regular reasons of regular reasons of regular regul	Contract Contract Contract  Contract Contract Contract  Contract Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract	Control and Contro	Count of the year of year of the year of y	\$405001 3015001 2015001 2015001 \$2015001 \$5001 date  \$400001 \$6001001	1   1   1   1   1   1   1   1   1   1	Control Contro	NA. NA. NA. NA.		4.12 TO THE PROPERTY OF THE PR	rypaid of exclusions make in the College of the Col	Missan Home     Missan	Control contro
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Some of regular reasons of regular reasons of regular reasons of regular regul	Contract Contract Contract  Contract Contract Contract  Contract Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract	Control and Contro	Count of the year of year of the year of y	\$405001 3015001 2015001 2015001 \$2015001 \$5001 date  \$400001 \$6001001	1   1   1   1   1   1   1   1   1   1	Control Contro	NA. NA. NA. NA.		4.12 TO THE PROPERTY OF THE PR	rypaid of exclusions make in the College of the Col	Monte of valuation requirements of the control	Construction and the construction of the const
Some of regular reasons of regular reasons of regular reasons of regular regul	Control of	Committee Commit	Count of the year of year of the year of y	\$405001 3015001 2015001 2015001 \$2015001 \$5001 date  \$400001 \$6001001	1	Control Contro	NA. NA. NA. NA.		4.12 TO THE PROPERTY OF THE PR	rypaid of exclusions make in the College of the Col	Monte of valuation requirements of the control	Control contro
Some of regular reasons of regular reasons of regular reasons of regular regul	Contract Contract Contract  Contract Contract Contract  Contract Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract Contract  Contract  Contract Contract  Con	Contract and Contr	Count of the year of year of the year of y	\$405001 3015001 2015001 2015001 \$2015001 \$5001 date  \$400001 \$6001001	1	Control Control Technology (Service)  Control	NA. NA. NA. NA.		4.12 TO THE PROPERTY OF THE PR	rypaid of exclusions make in the College of the Col	Monte of valuation requirements of the control	Construction and the construction of the const
Some of regular reasons of regular reasons of regular reasons of regular regul	Control of	Contract and Contr	Count of the year of year of the year of y	\$405001 3015001 2015001 2015001 \$2015001 \$5001 date  \$400001 \$6001001	1	Control Control Technology (Service)  Control	NA. NA. NA. NA.		4.12 TO THE PROPERTY OF THE PR	rypaid of exclusions make in the College of the Col	Monte of valuation requirements of the control	Construction and the construction of the const
SE Lines of supply research frequency( + 0.2 Section 1) system reliquies ( + 0.2 Section 1) average (	Control of Control of State 1991  Best property of Control of State 1991  Best propert	Committee Commit	Count of the year of year of the year of y	\$405001 3015001 2015001 2015001 \$2015001 \$5001 date  \$400001 \$6001001	1	Control Control Technology (Service)  Control	NA. NA. NA. NA.		4.12 TO THE PROPERTY OF THE PR	rypaid of exclusions make in the College of the Col	Monte of valuation requirements of the control	Contract control and the Contract Control and Control

**ElectraNet - S1 - Total transmission circuit availability** 

Performance Targets	Graph start	Collar	Target	Cap	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			Form	nulae			Conditions					S- Calc 1	S- Calc 2
Performance	=	-0.003000							Availability	<	99.10%	-0.003000	-0.003000
	=	0.810811	x	Availability	+	-0.806514	99.10%	≤	Availability	≤	99.47%	-0.013489	-0.008159
	=	1.875000	х	Availability	+	-1.865063	99.47%	≤	Availability	≤	99.63%	-0.031194	-0.018868
	=	0.003000					99.63%	<	Availability			0.003000	0.003000

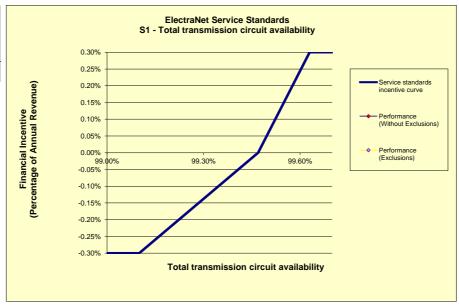
Performance Outcomes	Performance (Without Exclusions)	Performance (Exclusions)
al transmission circuit availat =	97.806323%	98.463696%
S-Factor =	-0.300000%	-0.300000%

# 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	Сар	Graph end
ritical circuit availability - pe	£ 98.30%	98.52%	99.24%	99.51%	
Weighting		-0.20%	0.00%	0.20%	

Performance Formulae			Fori	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%	-0.001166	0.001060
	=	0.740741	х	Availability	+	-0.735111	99.24%	≤	Availability	≤	99.51%	-0.003110	0.002826
	=	0.002000					99.51%	<	Availability			0.002000	0.002000

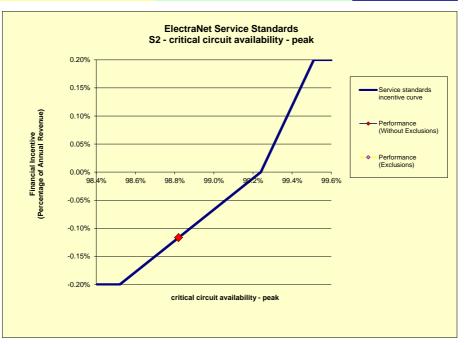
Performance Outcomes	Performance (Without Exclusions)	Performance (Exclusions)
ritical circuit availability – pea =	98.820141%	99.621571%
S-Factor =	-0.116627%	0.200000%

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

Performance Targets	Graph start	Collar	Target	Сар	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	ulae					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

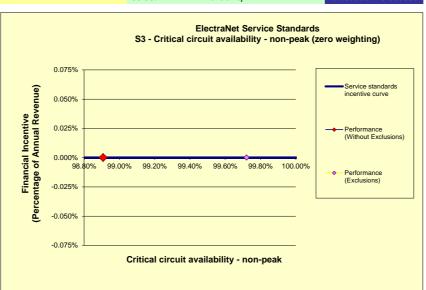
Performance Outcomes	Performance (Without Exclusions)	Performance (Exclusions)
cuit availability – non-peak (zero =	98.907912%	99.721376%
S-Factor =	0.000000%	0.000000%

# 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 - S4 - Loss of supply event frequency ( >0.05 system minutes )

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Loss of supply event frequency ( >0.05 system minutes )		11	8	6	-
Weighting		-0.100%	0.00%	0.100%	0.10%

Performance Formulae			Forr	nulae				Conditions	S- Calc 1	S- Calc 2
Performance	=	-0.001000					11 <	No. of events	-0.001000	-0.001000
	=	-0.000333	x	No. of events	+	0.002667	8 ≤	No. of events ≤	11 0.000000	0.000667
	=	-0.000500	x	No. of events	+	0.004000	6 ≤	No. of events ≤	8 0.000000	0.001000
	=	0.001000						No. of events <	6 0.001000	0.001000

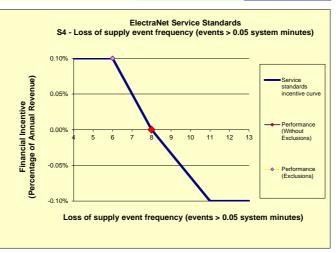
Loss of supply event frequency ( >0.05 system minutes ) =	Performance (Without Exclusions)	Performance (Exclusions)
Loss of supply event frequency ( >0.05 system minutes ) =	8	6
S-Factor	0.000000%	0.100000%

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

Blue cells show the TNSP's performance targets and weightings

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

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



#### 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%

Performance Formulae			F	ormulae					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	-0.002000	-0.001000
	=	-0.001000	х	No. of events	+	0.004000	2	≤	No. of events	≤	4	-0.002000	-0.001000
	=	0.002000							No. of events	=	2	0.002000	0.002000

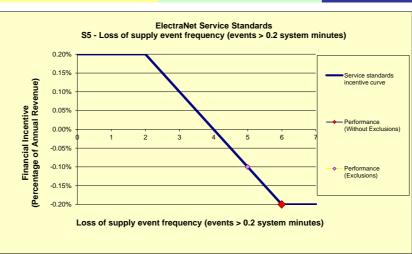
Loss of supply event frequency ( >0.2 system minutes )	=	Performance (Without Exclusions)	Performance (Exclusions)
Loss of supply event frequency ( >0.2 system minutes )	=	6	5
S-Factor		-0.200000%	-0.100000%

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

Blue cells show the TNSP's performance targets and weightings

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

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



#### **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	ormulae					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	-0.017211	-0.002168
	=	-0.000050	x	Duration	+	0.003900	38	≤	Duration	≤	78	-0.017641	-0.002222
	=	0.002000							Duration	<	38	0.002000	0.002000

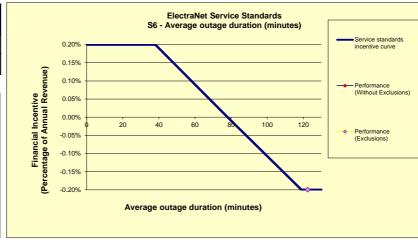
Average outage duration (minutes)	=	Performance (Without Exclusions)	Performance (Exclusions)
Average outage duration (minutes)	=	430.816327	122.441860
S-Factor		-0.200000%	-0.200000%

#### 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
CPI	162.2	166.2	171.0	176.7	179.5	-

Nominal annual revenue	2008-09	2009-10	2010-11	2011-12	2012-13
Allowed Revenue	\$229,990,000	\$249,636,506	\$272,077,206	\$297,818,430	\$320,478,165

Calendar year revenue	2008	2009	2010	2011	2012	2013
Revenue	\$114,995,000	\$239,813,253	\$260,856,856	\$284,947,818	\$309,148,298	

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

\$309,148,298

			Perforn	Performance without exclusions			Performance with exclusions		
S	Performance parameter	Target	Performance	S-Factor	Final Incentive	Performance	S-Factor	Final Incentive	Impact of exclusions
S1	Total transmission circuit availability	99.47%	97.806323%	-0.300000%	-\$927,445	98.463696%	-0.300000%	-\$927,445	0.000000%
S2	Critical circuit availability – peak	99.24%	98.820141%	-0.116627%	-\$360,552	99.621571%	0.200000%	\$618,297	0.316627%
S3	Critical circuit availability – non-peak (zero weighting)	99.62%	98.907912%	0.000000%	\$0	99.721376%	0.000000%	\$0	0.000000%
S4	Loss of supply event frequency ( >0.05 system minutes )	8	8	0.000000%	\$0	6	0.100000%	\$309,148	0.100000%
S5	Loss of supply event frequency ( >0.2 system minutes )	4	6	-0.200000%	-\$618,297	5	-0.100000%	-\$309,148	0.100000%
S6	Average outage duration (minutes)	78	431	-0.200000%	-\$618,297	122	-0.200000%	-\$618,297	0.000000%
	TOTALS			-0.816627%	-\$2,524,590		-0.300000%	-\$927,445	0.516627%

#### 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	-0.300000%
Financial Incentive	-\$927,445
Financial year affected by financial incentive	2013/14

#### **ElectraNet - Defined exclusions**

No	Parameter 1 Transmission sirguit susilability		
NO.	Parameter 1 - Transmission circuit availability		
	Defined exclusions	Further description of exclusion	Reference
	Unregulated transmission assets		Appendix C Revenue cap decision
1.2	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
1.3	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
1.4	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 decision
1.5	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
1.6	Force majeure		Appendix D First proposed STPIS
No.	Parameter 2 - Critical circuit availability - peal	k	
	Defined exclusions	Further description of exclusion	Reference
2.1	Unregulated transmission assets		Appendix C Revenue cap decision
	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
2.3	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
2.4	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 decision
2.5	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
2.6	Force majeure		Appendix D First proposed STPIS
	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 decision
3.2	Unregulated transmission assets		Appendix C Revenue cap decision
3.3	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 direction.	Appendix C Revenue cap decision
3.4	Planned outages		Appendix C Revenue cap decision
3.5	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 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).	Appendix C Revenue cap decision
3.6	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 estimation of load profiles unreliable.	Appendix C Revenue cap decision
3.7	Force majeure		Appendix D First proposed STPIS
		Where ElectraNet protection operates incorrectly ahead of third party protection, the portion of customer load that would have been lost had	Appendix C Revenue cap decision
	of third party protection	ElectraNet protection not operated is removed from the total lost load.	
3.9	a fault on a third party system	Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded.	Appendix C Revenue cap decision
	Parameter 4 - Loss of supply event frequency (>1.0 system minutes)		
	Defined exclusions	Further description of exclusion	Reference
41	Successful reclose events ( <1 min duration)	- a avos past of Stoudon -	Appendix C Revenue cap decision
	Unregulated transmission assets		Appendix C Revenue cap decision
	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	
		direction.	
	Planned outages		Appendix C Revenue cap decision
4.5	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 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).	Appendix C Revenue cap decision
	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 estimation of load profiles unreliable.	Appendix C Revenue cap decision
4.7	Force majeure		Appendix D First proposed STPIS
4.8	ElectraNet protection operates incorrectly ahead of third party protection	Where ElectraNet protection operates incorrectly ahead of third party protection, the portion of customer load that would have been lost had ElectraNet protection not operated is removed from the total lost load.	Appendix C Revenue cap decision

ElectraNet protection operates correctly due to a fault on a third party system	Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded.	Appendix C Revenue cap decision
Parameter 5 - Average outage duration		
Defined exclusions	Further description of exclusion	Reference
5.1 Successful reclose events ( <1 min duration)		Appendix C Revenue cap decision
5.2 Unregulated transmission assets		Appendix C Revenue cap decision
5.3 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
5.4 Planned outages		Appendix C Revenue cap decision
5.5 Interconnector outages supply interruptions	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).	Appendix C Revenue cap decision
5.6 Force majeure		Appendix D First proposed STPIS
5.7 ElectraNet protection operates correctly due to a fault on a third party system	Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded.	Appendix C Revenue cap decision

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	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 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 (January 2007)

# **Service Target Perfomance Incentive Scheme - Definition of Forece Majeure**

Definition of Force Majeure	Reference
For the purpose of applying the <i>service target performance incentive scheme</i> , force majeure events means any event, act or circumstance or combination of events, acts and circumstances which (despite the observance of good electricity industry practice) is beyond the reasonable control of the part affected by any such event, which may include, without limitation, the following:	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	
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?	

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 <u>ALL</u> binding constraints that are used to manage TNSP's XYZ equipment on a 5 minute resolution. The TNSP is able to enter the exclusion 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 entered, 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		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	6 Line out o	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 Network	Support constraint
TNSP XYZ	1/01/2007 12:30 PM	X>Y-22_LK 1	LINE 22	1/01/2007	1	12	OUTAGE		Y is also responsible for this outage
									,

# **ElectraNet - SERVICE STANDARDS PERFORMANCE SUMMARY**

	Ş	SERVICE TARGET PERI	FORMANCE 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)
2012	January	773	0	60762	0.00	5063.50
	February	338	0	54878	0.00	4573.17
	March	1156	29	64929	2.42	5410.75
	April	1738	49	64190	4.08	5349.17
	May	1184	11	64474	0.92	5372.83
	June	1603	279	59979	23.25	4998.25
	July	918	69	55740	5.75	4645.00
	August	2134	583	113706	48.58	9475.50
	September	2634	1072	57482	89.33	4790.17
	October	1804	740	64446	61.67	5370.50
	November	1997	626	66115	52.17	5509.58
	December	1931	1029	123168	85.75	10264.00
Total		18210	4487	849869	373.92	70822.42

NOTES:

Yellow cells - Enter market impact parameter performance data

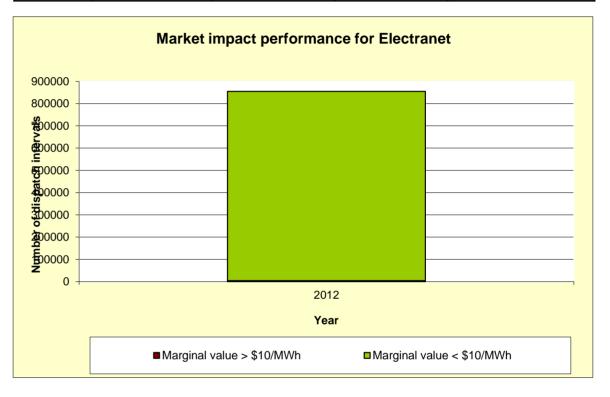
Note: Performance is measured on a calendar year basis.

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

Other inputs				
Assessment Period 2012				
Financial year to				
affect revenue:	2012/13			
Date prepared:				
Revision date:				
Target	1862			

Other Inputs							
Annual reven	Mar-08	Mar-09	Mar-10	Mar-11	Mar-12	Mar-13	
СРІ	162.2	166.2	171.0	176.7	179.5		

# Date Marginal value > Marginal value < Market impact paramters (Hrs) 2012 4487 849869 373.92 70822.42



# **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	-0.175596	-0.028195
	=	0.020000						No of dipatch intervals	= 0	0.020000	0.020000

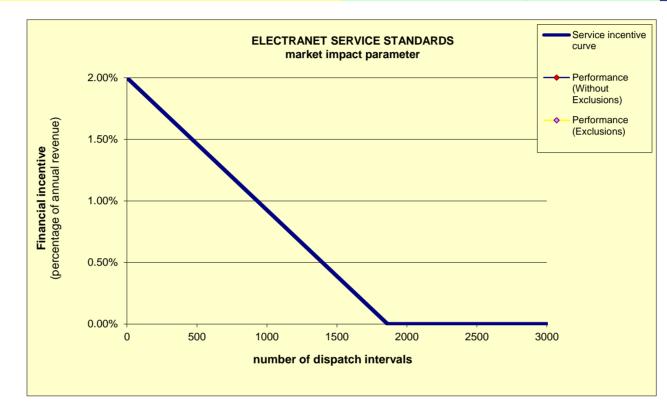
Performance Outcomes	Performance (Without Exclusions)	Performance (Exclusions)
number of dispatch intervals =	18210	4487
S-Factor =	0.0000%	0.0000%

#### 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

A lactor arter approval or mainer at	<u> </u>
	2010-11 to
Revenue cap information	2012-13
Base year allowed revenue (2010-	
11)	\$272,077,20
Base year	2010-1
X-factor	-5.95%
Commencement of regulatory period	01-Jul-0

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	179.5	

	2008-09	2009-10	2010-11	2011-12	2012-13
AR	\$229,990,000	\$249,636,506	\$272,077,206	\$297,818,430	\$320,478,165

Calendar year revenue	2008	2009	2010	2011	2012	2013
Revenue	\$114,995,000	\$239,813,253	\$260,856,856	\$284,947,818	\$309,148,298	

# NOTES:

Grey cells show calendar year revenue	
Green cells are for formula	

# **ElectraNet - Market impact parameter performance outcomes**

Revenue calendar year

\$309,148,298

months) Performance S-Factor Final Incentive Performance S-Factor Final Incentive exclusions	Performance parameter	Target (six	Performance	e without exc	lusions	Perf	Impact of		
Market impact parameter 1,862 18210 0.000000% \$0 4487 0.000000% \$0 0.000000%	r en ormance parameter	months)	Performance	S-Factor	Final Incentive	Performance	S-Factor	Final Incentive	exclusions
	Market impact parameter	1,862	18210	0.000000%	\$0	4487	0.000000%	\$0	0.000000%

# 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	0.000000%
Bonus for market impact parameter	\$0
Financial year to affect revenue	2012/13

# **Exclusions for Service Target Perfomance Incentive Scheme**

Exclusion Number	Defined Exclusion	Further description	Reference
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) 8 (b) 8 (c) 8 (d) 8 (e) 8 (f)	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)  (b) a constraint applied by AEMO that does not accurately reflect or is otherwise inconsistent with that network capability that the TNSP advised AEMO  (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 Performance Incentive Scheme (March 2008) p. 46

# **Service Target Perfomance Incentive Scheme - Definition of Forece Majeure**

Definition of Force Majeure	Reference
For the purpose of applying the <i>service target performance incentive scheme</i> , force majeure events means any event, act or circumstance or combination of events, acts and circumstances which (despite the observance of good electricity industry practice) is beyond the reasonable control of the part affected by any such event, which may include, without limitation, the following:	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	
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)	Exclusion Count (DI)	Market Impact Parameters	Inclusion Count (Hrs)	Excluded Count (Hrs)	OUTAGE EXCLUSIONS	MITC CHECKED DIs
						(Hrs)				
2012-01	60762	59989	773	0	773	2.68	0	2.68	160	773
2012-02	54878	54540	338	0	338	1.17	0	1.17	100	338
2012-03	64929	63773	1156	29	1127	4.01	0.1	3.91	381	1156
2012-04	64190	62452	1738	49	1689	6.03	0.17	5.86	1000	1738
2012-05	64474	63290	1184	11	1173	4.11	0.04	4.07	739	1184
2012-06	59979	58376	1603	279	1324	5.57	0.97	4.6	330	1603
2012-07	55740	54822	918	69	849	3.19	0.24	2.95	92	918
2012-08	113706	111572	2134	583	1551	7.41	2.02	5.39	748	2134
2012-09	57482	54848	2634	1072	1562	9.15	3.72	5.42	102	2634
2012-10	64446	62642	1804	740	958	6.26	2.57	3.33	226	1804
2012-11	66115	64118	1997	626	1371	6.93	2.17	4.76	828	1997
2012-12	123168	121237	1931	1029	902	6.7	3.57	3.13	673	1931
Total	849869		18210	4487	13617	63.21	15.57	47.27	5379	18210

Constraint ID	Constraint Description	Marginal Value >	Marginal	Inclusion	Exclusion	Market Impact	Inclusion	Excluded	OUTAGE	MITC CHECKED
	·	\$0 (DI)	Vlaue > \$10	Count (DI)	Count (DI)	Parameters	Count (Hrs)	Count (Hrs)	EXCLUSIONS	DIs
#R006175_010_RAMP_V	Soft Ramping constraint for constraint	3	0	0	C	0	0	(	0	0
#R006175_011_RAMP_F	Hard Ramping constraint for constraint	8	1	0	0 1		0	C	0	1
#R006175_011_RAMP_V	Soft Ramping constraint for constraint	3	0	0	C	0	0	C	0	0
#R006209_002_RAMP_F	Hard Ramping constraint for constraint	6	3	0	3	0.01	0	0.01	0	3
#R006209_002_RAMP_V	Soft Ramping constraint for constraint	2	0	0	C	0	0	C	0	0
#R006241_006_RAMP_V	Soft Ramping constraint for constraint	3	0	0	C	0	0	C	0	0
#R006241_007_RAMP_F	Hard Ramping constraint for constraint	9	8	0	8	0.03	0	0.03	3 0	8
#R006241_008_RAMP_V	Soft Ramping constraint for constraint	1	0	0	C	0	0	C	0	0
#R006241_013_RAMP_V	Soft Ramping constraint for constraint	1	0	0	C	0	0	C	0	0
#R006255_005_RAMP_F	Hard Ramping constraint for constraint VS_250,	2	0	0	C	0	0	C	0	0
#R006255_005_RAMP_V	Soft Ramping constraint for constraint VS_250,	1	0	0	C	0	0	C	0	0
#R006257_016_RAMP_F	Hard Ramping constraint for constraint VS_250,	2	0	0	C	0	0	C	0	0
#R006257_016_RAMP_V	Soft Ramping constraint for constraint VS_250,	3	0	0	C	0	0	C	0	0
#R006259_002_RAMP_F	Hard Ramping constraint for constraint	6	0	0	C	0	0	C	0	0
#R006259_002_RAMP_V	Soft Ramping constraint for constraint	3	0	0	C	0	0	C	0	0
#R006267_006_RAMP_F	Hard Ramping constraint for constraint	6	0	0	C	0	0	C	0	0
#R006267_006_RAMP_V	Soft Ramping constraint for constraint	5	0	0	C	0	0	C	0	0
#R006267_007_RAMP_F	Hard Ramping constraint for constraint	6	4	0	4	0.01	0	0.01	0	4
#R006267_007_RAMP_V	Soft Ramping constraint for constraint	3	0	0	C	0	0	C	0	0
#R006268_006_RAMP_F	Hard Ramping constraint for constraint	6	0	0	C	0	0	C	0	0
#R006271_006_RAMP_F	Hard Ramping constraint for constraint	4	0	0	C	0	0	C	0	0
#R006271_006_RAMP_V	Soft Ramping constraint for constraint	3	0	0	C	0	0	C	0	0
#R006289_007_RAMP_F	Hard Ramping constraint for constraint	8	3	0	3	0.01	0	0.01	C	3
#R006289_007_RAMP_V	Soft Ramping constraint for constraint	1	0	0	C	0	0	C	0	0
#R006289_008_RAMP_V	Soft Ramping constraint for constraint	2	0	0	C	0	0	C	0	0
#R006289_013_RAMP_F	Hard Ramping constraint for constraint	1	0	0	C	0	0	C	0	0
#R006292_004_RAMP_F	Hard Ramping constraint for constraint	1	0	0	C	0	0	C	0	0
#R006292_004_RAMP_V	Soft Ramping constraint for constraint	1	0	0	C	0	0	C	0	0
#R006297_002_RAMP_V	Soft Ramping constraint for constraint	6	0	0	C	0	0	C	0	0
#R006298_010_RAMP_V	Soft Ramping constraint for constraint	1	0	0	C	0	0	C	0	0
#R006298_011_RAMP_F	Hard Ramping constraint for constraint	2	0	0	C	0	0	C	0	0
#R006298_011_RAMP_V	Soft Ramping constraint for constraint	3	0	0	C	0	0	C	0	0
#R006298_012_RAMP_V	Soft Ramping constraint for constraint	1	0	0	C	0	0	C	0	0
#R006301_002_RAMP_F	Hard Ramping constraint for constraint	7	3	0	3	0.01	0	0.01	C	3
#R006301_002_RAMP_V	Soft Ramping constraint for constraint	1	0	0	C	0	0	(	0	0
#R006334_004_RAMP_F	Hard Ramping constraint for constraint	3	2	0		0.01	0	0.01	0	2
#R006334_004_RAMP_V	Soft Ramping constraint for constraint	7	2	0		0.01	0	0.01	0	2
#R006334_005_RAMP_V	Soft Ramping constraint for constraint	4	0	0		0	0	(	0	0
#R006335_005_RAMP_V	Soft Ramping constraint for constraint	4	1	0	1	0	0	(	0	1

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#R006335_006_RAMP_F	Hard Ramping constraint for constraint	8	4	0	4	0.01	0	0.01	0	4
#R006335_006_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006350_004_RAMP_F	Hard Ramping constraint for constraint	12	12	0	12	0.04	0	0.04	0	12
#R006350_004_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006350_005_RAMP_V	Soft Ramping constraint for constraint	3	3	0	3	0.01	0	0.01	0	3
#R006350_006_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006350_011_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006363_010_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006363_016_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006363_020_RAMP_F	Hard Ramping constraint for constraint	11	6	0	6	0.02	0	0.02	0	6
#R006363_020_RAMP_V	Soft Ramping constraint for constraint VN::DDMS,	1	0	0	0	0	0	0	0	0
#R006382_012_RAMP_V	Soft Ramping constraint for constraint	4	0	0	0	0	0	0	0	0
#R006382_013_RAMP_F	Hard Ramping constraint for constraint	6	0	0	0	0	0	0	0	0
#R006384_013_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006384_014_RAMP_F	Hard Ramping constraint for constraint	3	0	0	0	0	0	0	0	0
#R006386_018_RAMP_F	Hard Ramping constraint for constraint	4	0	0	0	0	0	0	0	0
#R006386_018_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006386_020_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006386_020_RAMP_V	Soft Ramping constraint for constraint	1	0	ol	0	0	0	0	0	0
#R006391_020_RAMP_F	Hard Ramping constraint for constraint	1	0	ol	0	0	0	0	0	0
#R006391_020_RAMP_V	Soft Ramping constraint for constraint	4	0	0	0	0	0	0	0	0
#R006395_005_RAMP_V	Soft Ramping constraint for constraint VS_250,	3	0	0	0	0	0	0	0	0
#R006400_007_RAMP_V	Soft Ramping constraint for constraint	4	0	0	0	0	0	0	0	0
#R006400_008_RAMP_V	Soft Ramping constraint for constraint	3	0	0	0	0	0	0	0	0
#R006400_013_RAMP_V	Soft Ramping constraint for constraint	4	0	0	0	0	0	0	0	0
#R006400_014_RAMP_V	Soft Ramping constraint for constraint	4	0	0	0	0	0	0	0	0
#R006400_015_RAMP_F	Hard Ramping constraint for constraint VS_250,	4	0	0	0	0	0	0	0	0
#R006400_015_RAMP_V	Soft Ramping constraint for constraint VS_250,	4	0	0	0	0	0	0	0	0
#R006413_004_RAMP_F	Hard Ramping constraint for constraint	5	5	0	5	0.02	0	0.02	0	5
#R006413_004_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006413_005_RAMP_F	Hard Ramping constraint for constraint	5	5	0	5	0.02	0	0.02	0	5
#R006413_005_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006413 006 RAMP V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006441 004 RAMP F	Hard Ramping constraint for constraint	7	7	0	7	0.02	0	0.02	0	7
#R006441_004_RAMP_V	Soft Ramping constraint for constraint	1	1	0	1	0	0	0	0	1
#R006441_005_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006441 010 RAMP V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006441 011 RAMP V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006447 006 RAMP V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006447_007_RAMP_F	Hard Ramping constraint for constraint	7	5	0	5	0.02	0	0.02	0	5
#R006447_007_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006447_008_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006447_008_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006447_019_RAMP_F	Hard Ramping constraint for constraint VS_250,	1	0	0	0	0	0	0	0	0
#R006447_019_RAMP_V	Soft Ramping constraint for constraint VS_250,	2	0	0	0	0	0	0	0	0
#R006456_017_RAMP_F	Hard Ramping constraint for constraint	2	0	o	0	0	0	0	0	0
#R006460_007_RAMP_F	Hard Ramping constraint for constraint	6	0	0	0	0	0	0	0	0
#R006460_007_RAMP_V	Soft Ramping constraint for constraint	5	0	0	0	0	0	0	0	0
#R006467_011_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006467_011_RAMP_V	Soft Ramping constraint for constraint	4	0	0	0	0	0	0	0	0
#R006467_016_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006467_017_RAMP_F	Hard Ramping constraint for constraint	5	0	0	0	0	0	0	0	0
#R006467_017_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006467_020_RAMP_F	Hard Ramping constraint for constraint	3	0	0	0	0	0	0	0	0
#R006467_020_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006470_010_RAMP_F	Hard Ramping constraint for constraint	3	0	0	0	0	0	0	0	0
#R006470_010_RAMP_V	Soft Ramping constraint for constraint	6	0	0	0	0	0	0	0	0
#R006470_011_RAMP_F	Hard Ramping constraint for constraint	4	0	0	0	0	0	0	0	0
									•	-

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#R006470_011_RAMP_V	Soft Ramping constraint for constraint	4	C	0 0	<u> </u>	0	0	0	0	0
#R006470_012_RAMP_V	Soft Ramping constraint for constraint	3	C	0	0	0	0	0	0	0
#R006470_016_RAMP_F	Hard Ramping constraint for constraint	2	C	0	0	0	0	0	0	0
#R006470_016_RAMP_V	Soft Ramping constraint for constraint	4	·	0	0	0	0	0	0	0
#R006470_017_RAMP_F	Hard Ramping constraint for constraint	4	. 3	3	) 3	0.01	0	0.01	0	3
#R006470_017_RAMP_V	Soft Ramping constraint for constraint	4	C	0	0	0	0	0	0	0
#R006470_018_RAMP_V	Soft Ramping constraint for constraint	3	C	0	0	0	0	0	0	0
#R006471_006_RAMP_V	Soft Ramping constraint for constraint	3	C	0	0	0	0	0	0	0
#R006471 007 RAMP V	Soft Ramping constraint for constraint	4	C	0	0	0	0	0	0	0
#R006471_008_RAMP_V	Soft Ramping constraint for constraint	2	C	0	0	0	0	0	0	0
#R006471_012_RAMP_V	Soft Ramping constraint for constraint	4		0	0	0	0	0	0	0
#R006471_013_RAMP_V	Soft Ramping constraint for constraint	4			0	0	0	0	0	0
#R006471 014 RAMP V	Soft Ramping constraint for constraint	1				0	0	0	0	0
#R006474_001_RAMP_F	Hard Ramping constraint for constraint S_LB3_0,	1	1		<u> </u>	0	0	0	0	1
#R006474_001_RAMP_V	Soft Ramping constraint for constraint S_LB3_0,	Ω 2	9	3 0	<u> </u>	0.03	0	0.03	0	8
#R006481_010_RAMP_F	Hard Ramping constraint for constraint  Hard Ramping constraint for constraint	5		1 0	<u> </u>	0.03	0	0.03	0	0
#R006481_010_RAMP_V	· •	<u> </u>	4	) (	<u>'</u>	0.01		0.01	0	4
	Soft Ramping constraint for constraint	2			` <del> </del>	0	0	<u> </u>	0	0
#R006481_011_RAMP_V	Soft Ramping constraint for constraint	2	1 0	ή -	<u>′</u> 1	0	0	0	0	0
#R006481_012_RAMP_V	Soft Ramping constraint for constraint	2	1 0		<u> </u>	0	0	0	0	0
#R006481_016_RAMP_F	Hard Ramping constraint for constraint	5		<u> </u>	<u> </u>	1 0	0	0	0	0
#R006481_016_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0	0	0	0	0	0
#R006481_017_RAMP_V	Soft Ramping constraint for constraint	2	<u> </u>	0 0	0	0	0	0	0	0
#R006484_001_RAMP_F	Hard Ramping constraint for constraint S_LB3_0,	3	3	3 C	) 3	0.01	0	0.01	0	3
#R006484_001_RAMP_V	Soft Ramping constraint for constraint S_LB3_0,	8	8	3 C	8	0.03	0	0.03	0	8
#R006489_014_RAMP_F	Hard Ramping constraint for constraint	4	. 2	2 0	) 2	0.01	0	0.01	0	2
#R006489_014_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0	0	0	0	0	0
#R006489_015_RAMP_V	Soft Ramping constraint for constraint	2	C	0	0	0	0	0	0	0
#R006489_016_RAMP_V	Soft Ramping constraint for constraint	1	C	) C	0	0	0	0	0	0
#R006495_013_RAMP_F	Hard Ramping constraint for constraint	7	7	' C	7	0.02	0	0.02	0	7
#R006495_014_RAMP_F	Hard Ramping constraint for constraint	2	C	0	0	0	0	0	0	0
#R006495_014_RAMP_V	Soft Ramping constraint for constraint	1	C	) C	0	0	0	0	0	0
#R006504_004_RAMP_F	Hard Ramping constraint for constraint	1	1		0	0	0	0	0	0
#R006504_004_RAMP_V	Soft Ramping constraint for constraint	1	0	) (	0	0	0	0	0	0
#R006516_007_RAMP_V	Soft Ramping constraint for constraint	1		0	0	0	0	0	0	0
#R006516_008_RAMP_F	Hard Ramping constraint for constraint	5			<u> </u>	0	0	0	0	0
#R006516_008_RAMP_V	Soft Ramping constraint for constraint	1			<u> </u>	0	0	0	0	0
#R006516 009 RAMP V	Soft Ramping constraint for constraint	1			0	0	0	0	0	0
#R006516 010 RAMP V	Soft Ramping constraint for constraint	1			0	0	0	0	0	0
#R006516_010_RAMP_F	Hard Ramping constraint for constraint	1			0	0	0	0	0	0
#R006516_011_RAMP_V	- · · ·	1			0	0	0	0	0	0
	Soft Ramping constraint for constraint	1		0	0	0	0	0	0	0
#R006516_012_RAMP_V	Soft Ramping constraint for constraint	1		1 0	0 0	0 00	0	0 00	0	0
#R006516_014_RAMP_F	Hard Ramping constraint for constraint	5	5		5	0.02	0	0.02	0	5
#R006516_014_RAMP_V	Soft Ramping constraint for constraint	1	<u> </u>	) <u>C</u>	<u> </u>	1 0	0	0	0	0
#R006516_016_RAMP_F	Hard Ramping constraint for constraint	1	1 1	<u> </u>	<u>1</u>	0	0	0	0	1
#R006522_007_RAMP_V	Soft Ramping constraint for constraint	1	<u>C</u>	0 0	0	0	0	0	0	0
#R006522_008_RAMP_F	Hard Ramping constraint for constraint	1	C	) C	0	0	0	0	0	0
#R006522_008_RAMP_V	Soft Ramping constraint for constraint	3	C	) <u> </u>	0	0	0	0	0	0
#R006522_013_RAMP_V	Soft Ramping constraint for constraint	1	C	) <u> </u>	0	0	0	0	0	0
#R006522_014_RAMP_V	Soft Ramping constraint for constraint	1	C	) c	0	0	0	0	0	0
#R006523_011_RAMP_V	Soft Ramping constraint for constraint	4	C	0	0	0	0	0	0	0
#R006523_012_RAMP_F	Hard Ramping constraint for constraint	10	3	3	3	0.01	0	0.01	0	3
#R006523_012_RAMP_V	Soft Ramping constraint for constraint	4	C	0	0	0	0	0	0	0
#R006523_018_RAMP_F	Hard Ramping constraint for constraint	5	C	0	0	0	0	0	0	0
#R006523_018_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0	0	0	0	0	0
#R006526_008_RAMP_F	Hard Ramping constraint for constraint	4	C	0	0	0	0	0	0	0
#R006526_008_RAMP_V	Soft Ramping constraint for constraint	1	0		0	0	0	0	0	0
#R006526 013 RAMP V	Soft Ramping constraint for constraint	2				n	0	n	0	0
#R006526_014_RAMP_V	Soft Ramping constraint for constraint	1				n	0	n	<u>0</u>	0
". 1.000020_0   T_11/\ VIII _V	Cont Numping Constraint for Constraint	4	1	<u>′ı</u>	<u>'1</u>			<u> </u>		U

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#R006527_011_RAMP_V	Soft Ramping constraint for constraint	3	S C	0	0	0	0	0	0	0
#R006527_012_RAMP_F	Hard Ramping constraint for constraint	4	C	0	0	0	0	0	0	0
#R006527_012_RAMP_V	Soft Ramping constraint for constraint	3	S C	0	0	0	0	0	0	0
#R006527_018_RAMP_V	Soft Ramping constraint for constraint	2	2	0	0	0	0	0	0	0
#R006533_007_RAMP_F	Hard Ramping constraint for constraint	1	C	0	0	0	0	0	0	0
#R006533_007_RAMP_V	Soft Ramping constraint for constraint	3	C	0	0	0	0	0	0	0
#R006533_008_RAMP_F	Hard Ramping constraint for constraint	1	C	0	0	0	0	0	0	0
#R006533_008_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006533_013_RAMP_V	Soft Ramping constraint for constraint	2	) (	0	0	0	0	0	0	0
#R006533_014_RAMP_V	Soft Ramping constraint for constraint	2		0	0	0	0	0	0	0
#R006534 011 RAMP V	Soft Ramping constraint for constraint	3			`	0	0	0	0	0
#R006534_012_RAMP_F	Hard Ramping constraint for constraint	2	1	1 0	<del></del>	0	0	0	0	1
#R006534_012_RAMP_V	Soft Ramping constraint for constraint	2	· '		·	0	0	0	0	0
#R006534_017_RAMP_V	Soft Ramping constraint for constraint	1			<u> </u>	0	0	0	0	0
#R006534_018_RAMP_F	Hard Ramping constraint for constraint	5	: .	1 0	<del>'l                       </del>	0.01	0	0.01	0	0
#R006550 006 RAMP V	· •	1	7	) 0	<u> </u>	0.01	0	0.01	0	4
	Soft Ramping constraint for constraint			<u> </u>	<u> </u>	0	0	0	0	0
#R006550_007_RAMP_F	Hard Ramping constraint for constraint	1	1	0	1	0	0	0	0	1
#R006550_007_RAMP_V	Soft Ramping constraint for constraint	2		0	<u>′</u>	0	0	0	0	0
#R006550_008_RAMP_F	Hard Ramping constraint for constraint	<u> </u>	.	0	<u>1</u>	0	0	0	0	1
#R006551_001_RAMP_F	Hard Ramping constraint for constraint	5	C	0	0	0	0	0	0	0
#R006551_001_RAMP_V	Soft Ramping constraint for constraint SVML_000,	4	C	0	0	0	0	0	0	0
#R006553_010_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0	0	0	0	0	0
#R006553_011_RAMP_F	Hard Ramping constraint for constraint	2	? <u> </u>	0	0	0	0	0	0	0
#R006553_011_RAMP_V	Soft Ramping constraint for constraint	2	2 C	0	0	0	0	0	0	0
#R006553_012_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0	0	0	0	0	0
#R006553_017_RAMP_F	Hard Ramping constraint for constraint	1	1	0	1	0	0	0	0	1
#R006562_007_RAMP_F	Hard Ramping constraint for constraint	1	C	0	0	0	0	0	0	0
#R006562_007_RAMP_V	Soft Ramping constraint for constraint	4	C	0	0	0	0	0	0	0
#R006562_008_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0	0	0	0	0	0
#R006562_019_RAMP_V	Soft Ramping constraint for constraint VS_250,	3	S C	0	0	0	0	0	0	0
#R006563_004_RAMP_V	Soft Ramping constraint for constraint	2	el c	) 0	0	0	0	0	0	0
#R006563_005_RAMP_V	Soft Ramping constraint for constraint	2	2 0	) 0	0	0	0	0	0	0
#R006563 007 RAMP V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006563_008_RAMP_V	Soft Ramping constraint for constraint	1	1	0	<u> </u>	0	0	0	0	0
#R006563_010_RAMP_F	Hard Ramping constraint for constraint	1			<u> </u>	0	0	0	0	0
#R006563_013_RAMP_F	Hard Ramping constraint for constraint	<u>'</u>	<del>                                     </del>		<u> </u>	0	0	0	0	0
#R006567 008 RAMP F	Hard Ramping constraint for constraint  Hard Ramping constraint for constraint	1		0	0	0	0	0	0	0
#R006567_008_RAMP_V	Soft Ramping constraint for constraint	2			0	0	0	0	0	0
#R006567_008_RAMP_V	Soft Ramping constraint for constraint  Soft Ramping constraint for constraint	4			) <u> </u>	0	0	0	0	0
#R006567_009_RAMP_V #R006567_013_RAMP_V		1	1	<u>,                                     </u>	) <u> </u>	0	0	0	1	0
	Soft Ramping constraint for constraint	1	,	) O	) <u>0</u>	0	0	0	0	0
#R006567_014_RAMP_F	Hard Ramping constraint for constraint	2		) O	0	0	0	0	0	0
#R006567_014_RAMP_V	Soft Ramping constraint for constraint	1	1	<u> </u>	0	0	0	0	0	0
#R006567_015_RAMP_V	Soft Ramping constraint for constraint	1	.1	) <u>0</u>	<u> </u>	0	0	0	0	0
#R006574_006_RAMP_V	Soft Ramping constraint for constraint	3	51	) 0	<u> </u>	0	0	0	0	0
#R006574_007_RAMP_F	Hard Ramping constraint for constraint	1	<u> </u>	0	<u> </u>	0	0	1 0	0	0
#R006574_007_RAMP_V	Soft Ramping constraint for constraint	3	S C	0	0	0	0	0	0	0
#R006574_008_RAMP_F	Hard Ramping constraint for constraint	4	C	0	0	0	0	0	0	0
#R006574_008_RAMP_V	Soft Ramping constraint for constraint	2	2 0	0	0	0	0	0	0	0
#R006575_007_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0	0	0	0	0	0
#R006575_008_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0	0	0	0	0	0
#R006575_009_RAMP_F	Hard Ramping constraint for constraint	2	· 1	0	1	0	0	0	0	1
#R006575_011_RAMP_F	Hard Ramping constraint for constraint	5	3	0	3	0.01	0	0.01	0	3
#R006575_012_RAMP_F	Hard Ramping constraint for constraint	2	2 0	0	0	0	0	0	0	0
#R006575_012_RAMP_V	Soft Ramping constraint for constraint	2	2 0	0	0	0	0	0	0	0
#R006579_010_RAMP_V	Soft Ramping constraint for constraint	3	3 0	0	0	0	0	0	0	0
#R006579_011_RAMP_F	Hard Ramping constraint for constraint	1	1 1	0	) 1	0	0	0	0	1
#R006579_011_RAMP_V	Soft Ramping constraint for constraint	2			)	0	0	1 0	0	0
#R006579_015_RAMP_F	Hard Ramping constraint for constraint	5		1 0		0.01	0	0.01	<u> </u>	4
"11000010_010_11/1WII _I	prara namping constraint for constraint		<u>'l</u>	·1 ·	<u> </u>	0.01	U	0.01		

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#R006579_015_RAMP_V	Soft Ramping constraint for constraint V::V_EPTT,	1	0	0	0	0	0	0	0	0
#R006580_015_RAMP_F	Hard Ramping constraint for constraint	4	3	0	3	0.01	0	0.01	0	3
#R006580_020_RAMP_F	Hard Ramping constraint for constraint	9	5	0	5	0.02	0	0.02	0	5
#R006580_020_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006585_020_RAMP_F	Hard Ramping constraint for constraint	7	5	0	5	0.02	0	0.02	0	5
#R006585_020_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006586_015_RAMP_F	Hard Ramping constraint for constraint	3	1	0	1	0	0	0	0	1
#R006586_015_RAMP_V	Soft Ramping constraint for constraint V::V_EPTT,	2	0	0	0	0	0	0	0	0
#R006593_009_RAMP_F	Hard Ramping constraint for constraint		0	0	0	0	0	0	0	0
#R006598_009_RAMP_F	Hard Ramping constraint for constraint	<u> </u>		0	0	0	0	0	0	0
#R006598_009_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006598_010_RAMP_V	Soft Ramping constraint for constraint	2		0		0	0	0	0	0
			0	0	0	0	0	0	0	0
#R006598_015_RAMP_F	Hard Ramping constraint for constraint	<u> </u>	0	0	0	0 00	0	0 00	0	0
#R006626_008_RAMP_F	Hard Ramping constraint for constraint	9	0		0	0.02	0	0.02	0	0
#R006626_008_RAMP_V	Soft Ramping constraint for constraint	1	0	0		0	0	0	0	0
#R006640_007_RAMP_V	Soft Ramping constraint for constraint	1	0	0	, , ,	0	0	0	0	0
#R006652_009_RAMP_V	Soft Ramping constraint for constraint	3	0	0	0	0	0	0	0	0
#R006652_010_RAMP_F	Hard Ramping constraint for constraint	3	0	0	0	0	0	0	0	0
#R006652_010_RAMP_V	Soft Ramping constraint for constraint	3	0	0	0	0	0	0	0	0
#R006652_011_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006665_004_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006665_006_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006665_007_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006665_010_RAMP_F	Hard Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006665_012_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006665_013_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006665_014_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006669_007_RAMP_V	Soft Ramping constraint for constraint		0	0	0	0	0	0	0	0
#R006669_013_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006675_007_RAMP_F	Hard Ramping constraint for constraint	4	0	0	0	0	0	0	0	0
#R006675_007_RAMP_V	Soft Ramping constraint for constraint			0	, ,	0	0	0	0	0
#R006679_006_RAMP_V	Soft Ramping constraint for constraint	1	0	0		0	0	0	0	0
#R006679_007_RAMP_V	Soft Ramping constraint for constraint	1	0	0	, ,	0	0	0	0	0
#R006679_008_RAMP_V	Soft Ramping constraint for constraint		0	0		0	0	0	0	0
			0	0	0	0	0	0	0	0
#R006679_013_RAMP_F	Hard Ramping constraint for constraint		1	0	1	0	0	0	0	1
#R006679_014_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006690_003_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006690_006_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006690_007_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006690_012_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006700_006_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006700_006_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006700_007_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006700_012_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006700_013_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006710_006_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006710_007_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006710_013_RAMP_F	Hard Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R006712_021_RAMP_V	Soft Ramping constraint for constraint	3	0	0	0	0	0	0	0	0
#R006726_004_RAMP_F	Hard Ramping constraint for constraint	1	0	n	n	0	0	0	0	0
#R006726_004_RAMP_V	Soft Ramping constraint for constraint	3	0	0	n	0	n	0	<u>0</u>	0
#R006729_002_RAMP_V	Soft Ramping constraint for constraint SV_250,		0	0	<u> </u>	0	0	0	0	0
#R006750_010_RAMP_V	Soft Ramping constraint for constraint 3v_230,	1	0	0	0	0	0	0	0	0
#R006750_010_KAMP_V #R006750_011_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006750_011_RAMP_V #R006750_012_RAMP_V	· ·	1	1	0	0	0	0	0	0	0
	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R006755_001_RAMP_F	Hard Ramping constraint for constraint S_LB3_0,	1	1 1	0	1	0	0	0	0	1
#R006755_001_RAMP_V	Soft Ramping constraint for constraint S_LB3_0,	4	4	0	4	0.01	0	0.01	0	4
#R006759_007_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	<u> </u>	0	0	0	0

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#R006759_008_RAMP_V	Soft Ramping constraint for constraint	4	C	0	0 0	0	0	0	0
#R006762_001_RAMP_F	Hard Ramping constraint for constraint	1	C	0	0 0	0	0	0	0
#R006762_001_RAMP_V	Soft Ramping constraint for constraint SVML_000,	5	C	0	0 (	0	0	0	0
#R006765_006_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 (	0	0	0	0
#R006769_022_RAMP_F	Hard Ramping constraint for constraint	5	C	0	0 (	0	0	0	0
#R006769_022_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 (	0	0	0	0
#R006769_029_RAMP_F	Hard Ramping constraint for constraint V>>V-	1	C	0	0	0	0	0	0
#R006769_029_RAMP_V	Soft Ramping constraint for constraint V>>V-	1	C	0	0	0	0	0	0
#R006771_006_RAMP_F	Hard Ramping constraint for constraint	5	C	0	0 (	0	0	0	0
#R006771_006_RAMP_V	Soft Ramping constraint for constraint	3	C	0	0 (	0	0	0	0
#R006771_007_RAMP_V	Soft Ramping constraint for constraint	2	C	0	0 (	0	0	0	0
#R006771_012_RAMP_F	Hard Ramping constraint for constraint	6	C	0	0 (	0	0	0	0
#R006771_012_RAMP_V	Soft Ramping constraint for constraint	2	C	0	0 (	0	0	0	0
#R006780_006_RAMP_F	Hard Ramping constraint for constraint	2	C	0	0 (	0	0	0	0
#R006780_006_RAMP_V	Soft Ramping constraint for constraint	3	0	0	0 (		0	0	0
#R006780_007_RAMP_V	Soft Ramping constraint for constraint	2		0	0 (		0	0	0
#R006780_012_RAMP_F	Hard Ramping constraint for constraint	1			0 0		0	nl	<u>0</u>
#R006780_012_RAMP_V	Soft Ramping constraint for constraint	1			0 0		0	<u> </u>	0
	Hard Ramping constraint for constraint	1	1		0 0		0	0	0
	Soft Ramping constraint for constraint	1			0 0		0	٥	0
	Soft Ramping constraint for constraint	4	1				0	٥	0
	1 0	1					<u> </u>	<u> </u>	0
	Hard Ramping constraint for constraint	3	1		0 (		U	<u>U</u>	0
	Soft Ramping constraint for constraint	4			0 0		0	0	0
#R006811_012_RAMP_V	Soft Ramping constraint for constraint	2		0	0 0	0	0	0	0
#R006812_002_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 0	0	0	0	0
#R006817_001_RAMP_F	Hard Ramping constraint for constraint S_LB3_0,	3	3	0	3 0.0		0.01	0	3
#R006817_001_RAMP_V	Soft Ramping constraint for constraint S_LB3_0,	5	5	0	5 0.02	2 0	0.02	0	5
#R006822_009_RAMP_V	Soft Ramping constraint for constraint	4	C	0	0 0	0	0	0	0
#R006855_012_RAMP_V	Soft Ramping constraint for constraint	2	C	0	0 (	0	0	0	0
#R006864_006_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 (	0	0	0	0
#R006864_007_RAMP_V	Soft Ramping constraint for constraint	4	C	0	0 (	0	0	0	0
#R006864_008_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 (	0	0	0	0
#R006864_013_RAMP_F	Hard Ramping constraint for constraint	2	C	0	0	0	0	0	0
#R006864_013_RAMP_V	Soft Ramping constraint for constraint	7	C	0	0	0	0	0	0
#R006865_006_RAMP_V	Soft Ramping constraint for constraint	2	C	0	0 (	0	0	0	0
#R006865_012_RAMP_V	Soft Ramping constraint for constraint	2	C	0	0 (	0	0	0	0
#R006869_006_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 (	0	0	0	0
#R006869_007_RAMP_F	Hard Ramping constraint for constraint	3	C	0	0 (	0	0	0	0
#R006869_007_RAMP_V	Soft Ramping constraint for constraint	3	C	0	0 (	0	0	0	0
#R006869_008_RAMP_V	Soft Ramping constraint for constraint	3	C	0	0 (	0	0	0	0
#R006869_013_RAMP_F	Hard Ramping constraint for constraint	5	3	0	3 0.0	0	0.01	0	3
#R006869_013_RAMP_V	Soft Ramping constraint for constraint	3		0	0 (	0	0	0	0
#R006869_014_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0
#R006870_006_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0 (	0	0	0	0
#R006870_007_RAMP_V	Soft Ramping constraint for constraint	1			0 (		0	0	<u> </u>
#R006870 012 RAMP V	Soft Ramping constraint for constraint	1			0 (		0	0	<u>0</u>
#R006877_004_RAMP_V	Soft Ramping constraint for constraint	3			0 0		0	nl	0
#R006877_009_RAMP_V	Soft Ramping constraint for constraint	1			0 0		0	nl	
#R006877_009_RAMP_F	Hard Ramping constraint for constraint	1	1		1 1		0	<u> </u>	1
#R006877_010_RAMP_V	Soft Ramping constraint for constraint	4 2					0	٥	1
	Hard Ramping constraint for constraint				0 0		0	0	0
#R006877_011_RAMP_V	Soft Ramping constraint for constraint	1	1		0 0		0	٥	0
	' ¥	4	1	) U	0 0	)	U	U	0
	Soft Ramping constraint for constraint	1	1		O 0		0.04	<u> </u>	0
	Hard Ramping constraint for constraint	4	3		3 0.0		0.01	U	3
	Soft Ramping constraint for constraint	1	1 0	0	U (	<u> </u>	0	0	0
	Hard Ramping constraint for constraint	2	<u> </u>	0	U (	<u> </u>	0	0	0
#R006879_016_RAMP_V	Soft Ramping constraint for constraint	2	<u> </u>	0	0 (	<u> </u>	0	0	0
#R006879_017_RAMP_F	Hard Ramping constraint for constraint	3	1 0	)  0	0] (	ען 0	0	0	0

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#R006879_017_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0 0	0	0	0
#R006891_007_RAMP_F	Hard Ramping constraint for constraint	4	0	0	0 0	0	0 0	0
#R006891_007_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0 0	0	0 0	0
#R006891_012_RAMP_F	Hard Ramping constraint for constraint	2	0	0	0 0	0	0 0	0
#R006891_013_RAMP_F	Hard Ramping constraint for constraint	4	2	0	2 0.01	0 0.0	1 0	2
#R006891_013_RAMP_V	Soft Ramping constraint for constraint	4	0	0	0 0	0	0 0	0
#R006891_014_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006898_016_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006898_017_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006898_017_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006898_018_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006898_020_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006898_023_RAMP_F	Hard Ramping constraint for constraint	3	0	0	0 0	0	0 0	0
#R006898_023_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0 0	0	0 0	0
#R006898_024_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006901_006_RAMP_F	Hard Ramping constraint for constraint	7	0	0	0 0	0	0 0	0
#R006901_006_RAMP_V	Soft Ramping constraint for constraint	3	0	0	0 0	0	0 0	0
#R006903_006_RAMP_V	Soft Ramping constraint for constraint	1	n	ő	0 0	0		0
#R006903_007_RAMP_F	Hard Ramping constraint for constraint	6	n	ő	0 0	0		0
#R006903_007_RAMP_V	Soft Ramping constraint for constraint	ব	0	n ol	0 0	nl		0
#R006903_007_IXAMP_V	Soft Ramping constraint for constraint	2	0	n ol		0		0
#R006903_008_RAMP_V	Soft Ramping constraint for constraint	1	0	٥	0 0	<u> </u>		0
#R006903_012_RAMP_F	Hard Ramping constraint for constraint	I 1	0	0	0 0	<u> </u>		0
#R006903_013_RAMP_V	Soft Ramping constraint for constraint	4	0	0	0 0	0		0
#R006903_013_RAMP_V #R006903_014_RAMP_V		4	0	0	0 0	0		0
	Soft Ramping constraint for constraint	3	0	0	0 0	0	0 0	0
#R006904_002_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006916_017_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0 0	0	0	0
#R006916_017_RAMP_V	Soft Ramping constraint for constraint	6	0	0	0 0	0	0	0
#R006916_018_RAMP_F	Hard Ramping constraint for constraint	/	1	0	1 0	0	0 0	1
#R006916_024_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0 0	0	0	0
#R006923_032_RAMP_F	Hard Ramping constraint for constraint	5	0	0	0 0	0	0 0	0
#R006923_032_RAMP_V	Soft Ramping constraint for constraint	8	0	0	0 0	0	0 0	0
#R006929_007_RAMP_F	Hard Ramping constraint for constraint	3	0	0	0 0	0	0 0	0
#R006929_007_RAMP_V	Soft Ramping constraint for constraint	3	0	0	0 0	0	0 0	0
#R006929_008_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006929_012_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006929_013_RAMP_V	Soft Ramping constraint for constraint	3	0	0	0 0	0	0 0	0
#R006929_014_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006931_006_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006931_007_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006931_007_RAMP_V	Soft Ramping constraint for constraint	5	0	0	0 0	0	0 0	0
#R006931_008_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0 0	0	0 0	0
#R006931_012_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0 0	0	0 0	0
#R006931_013_RAMP_F	Hard Ramping constraint for constraint	4	0	0	0 0	0	0 0	0
#R006931_013_RAMP_V	Soft Ramping constraint for constraint	4	0	0	0 0	0	0 0	0
#R006943_003_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0 0	0	0 0	0
#R006943_004_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006943_006_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0 0	0	0 0	0
#R006943_007_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0 0	0	0 0	0
#R006943_009_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006943_010_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0 0	0	0 0	0
#R006943_012_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006943_013_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0 0	o	0 0	0
#R006946_002_RAMP_F	Hard Ramping constraint for constraint	2	1	ol	1 0	ol	0 0	1
#R006946_002_RAMP_V	Soft Ramping constraint for constraint	5	3	0	3 0.01	0 0.0	1 0	3
#R006947_003_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0	0	0 0	0
#R006947_004_RAMP_V	Soft Ramping constraint for constraint	1	0			nl		0
#R006947_006_RAMP_F	Hard Ramping constraint for constraint	3	0			ől	0 0	0
"''''   TOOO   TOOO   TOO   TO	phara ramping constraint for constraint	ر		ᅵ	<u> </u>	<u> </u>	<u> </u>	

## ## ## ## ## ## ## ## ## ## ## ## ##		T		,			1	ı	T	1	
##COMPAND V SON Repurple constraint for constraint # 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R006947_006_RAMP_V	Soft Ramping constraint for constraint	2	0		0	0	0	0	0	0
MERCORATE   CORPORATIVE   SORT Remaining constraint for constraint or   Constraint   Constrain			1	0	0	0	0	0	0	0	0
##COMPATO 250 RAMP V Soft Resping contraint for constraint 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	0	0
##COMPANY_PISTON	#R006947_009_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
MR000651 DUT, FAMP   F. Hand Kampring constraint for constraint   2   2   0   2   0.01   0   0   0   0   0   0   0   0   0	#R006947_010_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
### ### ### ### ### ### ### ### ### ##	#R006947_013_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
##R00080_CO, BAMP F	#R006951_007_RAMP_F	Hard Ramping constraint for constraint	2	2	. 0	2	0.01	0	0.01	0	2
### MR069869 008 FAMP F   19-08 Expringing constraint for correlational 12 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R006957 008 RAMP F		13	11	C	11	0.04	0	0.04	0	11
### ### ### ### ### ### ### ### ### ##			1	0	C	0	0	0	0	0	0
### ### ### ### ### ### ### ### ### ##			12	3	0	3	0.01	0	0.01	0	3
##R00696F_007_FAMEP F   Inter Ramping constraint for constraint   2			1	0	0	0	0	0	0	0	0
##000950_002_RAMP_V		' '	6	0	<del>                                     </del>	<del> </del>	0	0	0	0	0
### Hard Ramping constraint for constraint 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
### RROPESPS 2008, FAMP V Soft Remping constraint for constraint 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		' '	4	0		0	ň	0	0	0	0
##R006092 004 FAMP V Soft Ramping constraint for constraint 2 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
##R006992_008_RAMP_V Soft Ramping constraint for constraint 3 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
##R006992_009 RAMP F Hard Ramping constraint for constraint S 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			2	0	<u> </u>	·	0	0	0	0	0
## ## ## ## ## ## ## ## ## ## ## ## ##		· · ·	<u>ა</u>	0		1	0	0	0	0	0
##R006989 003 RAMP F Hard Ramping constraint of constraint  ##R006989 003 RAMP F Hard Ramping constraint for constraint  ##R006989 003 RAMP F Hard Ramping constraint for constraint  ##R007004 002 RAMP F Hard Ramping constraint for constraint  ##R007004 002 RAMP F Hard Ramping constraint for constraint  ##R007004 002 RAMP F Hard Ramping constraint for constraint  ##R007004 002 RAMP F Hard Ramping constraint for constraint  ##R007004 002 RAMP F Hard Ramping constraint for constraint  ##R007004 002 RAMP F Hard Ramping constraint for constraint  ##R007004 003 RAMP F HARD Ramping		·	3	0	· · ·	0	0	0	0	0	0
##R000996 03 RAMP F Hard Ramping constraint for constraint 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		· · ·	3	0	· · ·	0	0	0	0	0	0
##R000940 QC, RAMP F Hard Ramping constraint for constraint 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	0
##R007004 002 RAMP F   Hard Ramping constraint for constraint   2   0   0   0   0   0   0   0   0   0		·	1	0		0	0	0	0	0	0
##R007004 002 RAMP V			1	0	0	0	0	0	0	0	0
##R007004 003_RAMP_V V Soft Ramping constraint for		·	2	0	0	0	0	0	0	0	0
##R00706_001_RAMP_F   Hard Ramping constraint for constraint   7		·	3	0	C	0	0	0	0	0	0
##R007018_001_RAMP_F   Hard Ramping constraint for constraint   1		·	5	0	0	0	0	0	0	0	0
#R0077019, 001, RAMP_V Soft Ramping constraint for constraint 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			7	0	0	0	0	0	0	0	0
#R007020_017_RAMP_V   Soft Ramping constraint for constraint   2		Hard Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007020_018_RAMP_F   Hard Ramping constraint for constraint   1	#R007018_001_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007020 018 RAMP V   Soft Ramping constraint for constraint   2   0   0   0   0   0   0   0   0   0	#R007020_017_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007027_002_RAMP_F Hard Ramping constraint for constraint 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R007020_018_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R00702_003_RAMP_F   Hard Ramping constraint for constraint   7   7   0   7   0.02   0   0.02   0   0.02   0   0.02   0   0.02   0   0.02   0   0.02   0   0.02   0   0.02   0   0.02   0   0   0   0   0   0   0   0   0	#R007020_018_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007034_011_RAMP_F	#R007027_002_RAMP_F	Hard Ramping constraint for constraint	1	1	0	1	0	0	0	0	1
#R007034 011 RAMP F Hard Ramping constraint for constraint 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R007027_003_RAMP_F	Hard Ramping constraint for constraint	7	7	0	7	0.02	0	0.02	0	7
#R007034_011_RAMP_V	#R007034 011 RAMP F		5	0	C	0	0	0	0	0	0
#R007034_012_RAMP_F			2	0	0	0	0	0	0	0	0
#R007034_025_RAMP_F Hard Ramping constraint for constraint 6 5 0 5 0.02 0 0.02 0 5 #R007037_005_RAMP_V Soft Ramping constraint for constraint 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
#R007037_005_RAMP_V			6	5	0	5	0.02	0	0.02	0	5
#R007037_006_RAMP_V		1 0	2	0	0	0	0.02	0	0.02	0	0
#R007037_011_RAMP_F		1 0	1	0	0	0	0	0	0	0	0
#R007037_012_RAMP_F		' '	3	1		1	ň	0	0	0	1
#R007041_007_RAMP_F			1	i i	0	0	ň	0	0	0	0
#R007041_007_RAMP_V			1	0		0	0	0	0	0	0
#R007042_006_RAMP_V		<u> </u>	1	0	0	0	0	0	0	0	0
#R007053_001_RAMP_V			<del>1</del>	0		0	0	0	0	0	0
#R007060_001_RAMP_V		<u> </u>	4	0		0	0	0	0	0	0
#R007091_008_RAMP_V			1	1		1	0	0	<u> </u>	<u> </u>	0
#R007091_009_RAMP_V		i	4	0		0	0	0	0	0	0
#R007144_016_RAMP_F Hard Ramping constraint for constraint 6 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
#R007144_016_RAMP_V Soft Ramping constraint for constraint		' '	2	0		0	0	0	0	0	0
#R007145_016_RAMP_F Hard Ramping constraint for constraint 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			6	0	1 0	0	0	0	0	0	0
#R007145_016_RAMP_V Soft Ramping constraint for constraint		- ' · ·	1	0	0	0	0	0	0	0	0
#R007145_017_RAMP_V Soft Ramping constraint for constraint 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		<u> </u>	4	0	0	0	0	0	0	0	0
#R007172_019_RAMP_V Soft Ramping constraint for constraint 1 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
#R007176_004_RAMP_V Soft Ramping constraint for constraint 2 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
#R007207_015_RAMP_V Soft Ramping constraint for constraint VS_250, 1 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
#R007210_019_RAMP_F Hard Ramping constraint for constraint 9 0 0 0 0 0 0 0 0 0	#R007176_004_RAMP_V	· •	2	0	0	0	0	0	0	0	0
	#R007207_015_RAMP_V	· •	1	0	0	0	0	0	0	0	0
#R007210_019_RAMP_V Soft Ramping constraint for constraint 3 0 0 0 0 0 0 0 0	#R007210_019_RAMP_F	Hard Ramping constraint for constraint	9	0	0	0	0	0	0	0	0
	#R007210_019_RAMP_V	Soft Ramping constraint for constraint	3	0	0	0	0	0	0	0	0

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#R007210_020_RAMP_F	Hard Ramping constraint for constraint VS_250,	1	0	0	0 0	0	C	C	0
#R007210_020_RAMP_V	Soft Ramping constraint for constraint VS_250,	1	0	0	0 0	0	C	C	0
#R007212_004_RAMP_F	Hard Ramping constraint for constraint	5	1	0	1 0	0	C	C	1
#R007212_004_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0 0	0	C		0
#R007215_004_RAMP_F	Hard Ramping constraint for constraint	2	0	0	0 0	0	C	0	0
#R007246_039_RAMP_F	Hard Ramping constraint for constraint	2	0	0	0 0	0	C	C	0
#R007246_039_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0	0	C		0
#R007248_005_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 (	0	0	(	0
#R007248_006_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0	0			) 0
#R007248_010_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 0				
#R007248_011_RAMP_F	Hard Ramping constraint for constraint	3	0	0		0			0
#R007248_011_RAMP_V	Soft Ramping constraint for constraint	2	0	0		0			0
#R007248_012_RAMP_F		- 2	0	0	2 0.01	0	0.01	1	) \
	Hard Ramping constraint for constraint	0		0	2 0.01	0	0.01	1 0	2
#R007248_012_RAMP_V	Soft Ramping constraint for constraint	3	0	0	0 0	0			0
#R007259_049_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0 0	0			0
#R007281_001_RAMP_F	Hard Ramping constraint for constraint S_LB3_0,	3	3	0	3 0.01	0	0.01	(	) 3
#R007281_001_RAMP_V	Soft Ramping constraint for constraint S_LB3_0,	4	4	0	4 0.01	0	0.01	1 0	4
#R007282_001_RAMP_F	Hard Ramping constraint for constraint S-LB2_0,	4	4	0	4 0.01	0	0.01	1 0	4
#R007283_001_RAMP_F	Hard Ramping constraint for constraint S_LB3_0,	1	1	0	1 (	0	C	ı c	1
#R007283_001_RAMP_V	Soft Ramping constraint for constraint S_LB3_0,	2	2	0	2 0.01	0	0.01	C	2
#R007304_001_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0 0	0	C	C	0
#R007304_001_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0 0	0	C	C	0
#R007304_002_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0 0	0	C	0	0
#R007304_002_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0 0	0	C	C	0
#R007304_003_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0 0	0	C	C	0
#R007304_003_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0 0	0	C	0	0
#R007304_004_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0 (	0	0	(	0
#R007304_004_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0 (	0			0
#R007305_001_RAMP_F	Hard Ramping constraint for constraint SV_250,	13	0	0	0 0				
#R007305_001_RAMP_V	Soft Ramping constraint for constraint SV_250,	13	0		0 0				
#R007305_001_RAMP_F	Hard Ramping constraint for constraint	13	0	0		0			0
#R007305_002_RAMP_V	Soft Ramping constraint for constraint	13	0	0		0			
	· · ·		0	0	0 0	0			0
#R007305_003_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0 0	0			0
#R007305_003_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0 0	0			0
#R007305_004_RAMP_F	Hard Ramping constraint for constraint VS_250,	13	0	0	0 0	0			0
#R007305_004_RAMP_V	Soft Ramping constraint for constraint VS_250,	13	0	0	0 0	0	C		0
#R007306_001_RAMP_F	Hard Ramping constraint for constraint SV_250,	13	0	0	0 0	0	C	C	0
#R007306_001_RAMP_V	Soft Ramping constraint for constraint SV_250,	13	0	0	0 0	0	C	C	0
#R007306_002_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0 0	0	C	C	0
#R007306_002_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0 0	0	C	C	0
#R007306_003_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0 0	0	C	0	0
#R007306_003_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0 0	0	C	C	0
#R007306_004_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0 0	0	C		0
#R007306_004_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0 0	0	C	0	0
#R007306_005_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0 0	0	C	C	0
#R007306_005_RAMP_V	Soft Ramping constraint for constraint	13	0	ol	0 0	0	0	o C	0
#R007306_006_RAMP_F	Hard Ramping constraint for constraint	13	n n	0	0 0	0	0	1	0
#R007306 006 RAMP V	Soft Ramping constraint for constraint	13	nl	0	0 0	) 0			
#R007306 007 RAMP F	Hard Ramping constraint for constraint	13	U O	n n	0 0				
#R007306_007_RAMP_V	Soft Ramping constraint for constraint	13	0	n ol					
#R007306 008 RAMP F	Hard Ramping constraint for constraint	13	0	n o		) 0			
#R007306_008_RAMP_V	Soft Ramping constraint for constraint	13	0	٥	0 0	) 0			) 0
#R007306_009_RAMP_F	' '	13	0	0	0 0	) O			,
	Hard Ramping constraint for constraint		0	U O	0 0	) <u> </u>	1	1	<u> </u>
#R007306_009_RAMP_V	Soft Ramping constraint for constraint	13	0	U O	U C	) <u>0</u>			) O
#R007306_010_RAMP_F	Hard Ramping constraint for constraint	13	0	0	U C	<u> </u>	<u> </u>		<u> </u>
#R007306_010_RAMP_V	Soft Ramping constraint for constraint	13	0	0	U (	<u> </u>	<u>C</u>	<u> </u>	<u> </u>
#R007306_011_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0 (	0	<u>C</u>	C	
#R007306_011_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0  0	)  0	<u>C</u>	( <u> </u>	)[ 0

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#R007306_012_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_012_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_013_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_013_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_014_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_014_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_015_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_015_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_016_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_016_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_017_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_017_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_018_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_018_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_019_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_019_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_020_RAMP_F	Hard Ramping constraint for constraint VS_250,	13	0	0	0	0	0	0	0	0
#R007306_020_RAMP_V	Soft Ramping constraint for constraint VS_250,	13	0	0	0	0	0	0	0	0
#R007306_022_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_022_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_024_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_024_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306 025 RAMP F	Hard Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007306_025_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0	0	0	0
#R007315_007_RAMP_F	Hard Ramping constraint for constraint	5	5	0	5	0.02	0	0.02	0	5
#R007315_007_RAMP_V	Soft Ramping constraint for constraint	3	0	0	0	0	0	0	0	0
#R007317_006_RAMP_F	Hard Ramping constraint for constraint	1	1	0	1	0	0	0	0	1
#R007317_006_RAMP_V	Soft Ramping constraint for constraint	4	0	0	0	0	0	0	0	0
#R007337_009_RAMP_F	Hard Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007337_009_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007337_020_RAMP_F	Hard Ramping constraint for constraint VS_250,	1	1	0	1	0	0	0	0	1
#R007341_010_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007357_001_RAMP_F	Hard Ramping constraint for constraint	1	1	0	1	0	0	0	0	1
#R007357 001 RAMP V	Soft Ramping constraint for constraint	7	7	0	7	0.02	0	0.02	0	7
#R007358 008 RAMP F	Hard Ramping constraint for constraint	5	0	0	0	0	0	0	0	0
#R007358_008_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007358_009_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007358 024 RAMP V	Soft Ramping constraint for constraint	9	4	0	4	0.01	0	0.01	0	4
#R007376_003_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007376_008_RAMP_V	Soft Ramping constraint for constraint	4	0	0	0	0	0	0	0	0
#R007376 009 RAMP F	Hard Ramping constraint for constraint	8	1	0	1	0	0	0	0	1
#R007376_009_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007376_010_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007376_018_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007376_018_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007377_019_RAMP_F	Hard Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007377_019_RAMP_V	Soft Ramping constraint for constraint	3	0	0	0	0	0	0	0	0
#R007377_020_RAMP_F	Hard Ramping constraint for constraint VS_250,	6	4	0	4	0.01	0	0.01	0	4
#R007377_020_RAMP_V	Soft Ramping constraint for constraint VS_250,	3	0	0	0	0	0	0	0	0
#R007381_001_RAMP_V	Soft Ramping constraint for constraint SV_200,	1	0	0	0	0	0	0	0	0
#R007384_008_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007384_009_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007384_010_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007414_001_RAMP_F	Hard Ramping constraint for constraint	5	4	0	4	0.01	0	0.01	0	4
#R007414_001_RAMP_V	Soft Ramping constraint for constraint	8	3	0	3	0.01	0	0.01	0	3
#R007421_009_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007421_017_RAMP_V	Soft Ramping constraint for constraint	3	0	0	0	0	0	0	0	0
#R007422_009_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
		·					-			

	T		1							
#R007422_010_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007422_017_RAMP_F	Hard Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007422_017_RAMP_V	Soft Ramping constraint for constraint	3	0	0	0	0	0	0	0	0
#R007430_009_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007430_010_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007430_017_RAMP_F	Hard Ramping constraint for constraint	6	4	0	4	0.01	0	0.01	0	4
#R007430_017_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007430_018_RAMP_V	Soft Ramping constraint for constraint VS_250,	3	0	0	0	0	0	0	0	0
#R007455_020_RAMP_F	Hard Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007455_020_RAMP_V	Soft Ramping constraint for constraint	6	0	0	0	0	0	0	0	0
#R007464_008_RAMP_F	Hard Ramping constraint for constraint	3	0	0	0	0	0	0	0	0
#R007464_008_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007468_001_RAMP_V	Soft Ramping constraint for constraint	4	0	0	0	0	0	0	0	0
#R007469_002_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007476_008_RAMP_F	Hard Ramping constraint for constraint	8	6	0	6	0.02	0	0.02	0	6
#R007476_009_RAMP_V	Soft Ramping constraint for constraint	1	0	0	ŭ	0.02	0	0.02	0	0
#R007521_002_RAMP_F	Hard Ramping constraint for constraint	2	0	0	,	0	0	0	0	0
#R007521_002_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007533 001 RAMP F	Hard Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007533_001_RAMP_V	Soft Ramping constraint for constraint	9	0	0	0	0	0	0	0	0
#R007536 005 RAMP F	Hard Ramping constraint for constraint	3	0	0	0	0	0	0	0	0
		1	0	0	0	0	0	0	0	0
#R007539_005_RAMP_F #R007539_005_RAMP_V	Hard Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
	Soft Ramping constraint for constraint	0	0	0	0	0	0	0	0	0
#R007547_032_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007547_032_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007557_007_RAMP_V	Soft Ramping constraint for constraint	6	0	0	0	0	0	0	0	0
#R007561_002_RAMP_V	Soft Ramping constraint for constraint	2	0	0		0	0	0	0	0
#R007561_003_RAMP_F	Hard Ramping constraint for constraint	3	3	0	3	0.01	0	0.01	0	3
#R007561_003_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007561_004_RAMP_V	Soft Ramping constraint for constraint	1	0	0	ű	0	0	0	0	0
#R007561_009_RAMP_V	Soft Ramping constraint for constraint	1	0	0		0	0	0	0	0
#R007571_007_RAMP_V	Soft Ramping constraint for constraint	1	0	0	ű	0	0	0	0	0
#R007582_007_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007607_001_RAMP_F	Hard Ramping constraint for constraint	6	6	0	6	0.02	0	0.02	0	6
#R007607_001_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007607_002_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007607_003_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007607_007_RAMP_F	Hard Ramping constraint for constraint	5	4	0	4	0.01	0	0.01	0	4
#R007607_007_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007607_008_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007607_009_RAMP_V	Soft Ramping constraint for constraint	2	0	0	0	0	0	0	0	0
#R007609_001_RAMP_F	Hard Ramping constraint for constraint	1	1	0	1	0	0	0	0	1
#R007609_001_RAMP_V	Soft Ramping constraint for constraint	9	9	0	9	0.03	0	0.03	0	9
#R007618_001_RAMP_F	Hard Ramping constraint for constraint	6	0	0	0	0	0	0	0	0
#R007618_001_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007643_001_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007643_007_RAMP_F	Hard Ramping constraint for constraint	8	8	n	8	0.03	0	0.03	0	R R
#R007643_008_RAMP_F	Hard Ramping constraint for constraint  Hard Ramping constraint for constraint	2	2	n	2	0.01	0	0.01	0	2
#R007643_008_RAMP_V	Soft Ramping constraint for constraint	1	1	0	1	0.01	0	0.01	0	1
#R007643_009_RAMP_V	Soft Ramping constraint for constraint	1	<u>'</u>	0	'n	0	0	0	0	<u> </u>
#R007656 001 RAMP V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007656_002_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0
#R007656_007_RAMP_F	Hard Ramping constraint for constraint	Ω	1	0	1	0	0	٥	0	1
#R007656_007_RAMP_V	Soft Ramping constraint for constraint	ວ າ	1	0	1	0	0	٥	0	<u> </u>
#R007656_007_RAMP_V	Soft Ramping constraint for constraint  Soft Ramping constraint for constraint	<u> </u>	0	0	0	0	0	0	0	0
#R007656_008_RAMP_V #R007656_009_RAMP_V		4	0	0	0	0	0	0	0	0
	Soft Ramping constraint for constraint	1	40	0	40	0 04	0	0	0	0
#R007660_001_RAMP_F	Hard Ramping constraint for constraint	12	12		12	0.04	0	0.04	0	12
#R007660_001_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0	0	0	0

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#R007660_002_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 0	0	0 (	0
#R007660_007_RAMP_F	Hard Ramping constraint for constraint	2	C	0	0 (	0	0 (	0
#R007660_007_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 (	0	0 (	0
#R007677_001_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 (	0	0	0
#R007677_002_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0	0	0	0
#R007677_007_RAMP_F	Hard Ramping constraint for constraint	10	9	0	9 0.03	0	0.03	9
#R007677_008_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 (	ol ol	0 (	0
#R007684_007_RAMP_V	Soft Ramping constraint for constraint	4	C	0	0 (	0	0 (	0
#R007684 008 RAMP V	Soft Ramping constraint for constraint	1	C	0	0 (	0	0 (	0
#R007720 003 RAMP V	Soft Ramping constraint for constraint	1	0	0	0 (	0	0 (	0 0
#R007735_006_RAMP_V	Soft Ramping constraint for constraint	4	0	0	0 (	0	0 (	0
#R007735 007 RAMP F	Hard Ramping constraint for constraint	1		0	0 0		0 (	0
#R007735 007 RAMP V	Soft Ramping constraint for constraint	3		0	0 0		0 (	
#R007735_008_RAMP_V	Soft Ramping constraint for constraint	2					0 0	0
#R007735_006_RAWI _V #R007735_012_RAMP_F	Hard Ramping constraint for constraint	1	0				0 0	
#R007735_012_RAMP_V	Soft Ramping constraint for constraint	2		0			0 0	
#R007735_012_RAMP_V #R007735_013_RAMP_F	· •	3		0	2 0.01		0.01	) 0
	Hard Ramping constraint for constraint	4	1	. U	2 0.01	0	0.01	2
#R007735_013_RAMP_V	Soft Ramping constraint for constraint	1	1	0	U (	<u> </u>	0	J 0
#R007764_006_RAMP_V	Soft Ramping constraint for constraint	3		0	U (		U (	0
#R007764_007_RAMP_F	Hard Ramping constraint for constraint	5	<u> </u>	0	0 (	0	0 (	) <u> </u>
#R007764_007_RAMP_V	Soft Ramping constraint for constraint	3	C	0	0 (	0	0 (	0
#R007764_008_RAMP_V	Soft Ramping constraint for constraint	2	C	0	0 (	0	0 (	0
#R007764_013_RAMP_V	Soft Ramping constraint for constraint	2	C	0	0 (	0	0 (	0
#R007765_006_RAMP_F	Hard Ramping constraint for constraint	3	C	0	0 0	0	0	0
#R007765_006_RAMP_V	Soft Ramping constraint for constraint	4	C	0	0 0	0	0	0
#R007769_009_RAMP_F	Hard Ramping constraint for constraint	1	C	0	0 (	0	0 (	0
#R007769_010_RAMP_V	Soft Ramping constraint for constraint	2	C	0	0 (	0	0 (	0
#R007778_006_RAMP_F	Hard Ramping constraint for constraint	1	C	0	0 (	0	0 (	0
#R007778_006_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 (	0	0 (	0
#R007778_007_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 (	0	0 (	0
#R007778_012_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 0	0	0 (	0
#R007778_013_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 0	0	0 (	0 0
#R007817_004_RAMP_V	Soft Ramping constraint for constraint	2		0	0 (	0	0 (	0 0
#R007817 010 RAMP V	Soft Ramping constraint for constraint	4		0	0 0			
#R007827_001_RAMP_F	Hard Ramping constraint for constraint SV_200,	3	3	0	3 0.01	0	<u> </u>	) 3
#R007871_002_RAMP_F	Hard Ramping constraint for constraint 3v_200,	J			0 0.0	0		
#R007871_002_IXAMP_I #R007871_002_RAMP_V	Soft Ramping constraint for constraint	4		0			0 0	0
#R007890 016 RAMP V	<u> </u>	4					0 0	
	Soft Ramping constraint for constraint	1		0	0 0		0 (	
#R007890_022_RAMP_F	Hard Ramping constraint for constraint	4		0	0 0		0 (	0
#R007902_016_RAMP_F	Hard Ramping constraint for constraint			0	0 0	0	0 0	0
#R007902_016_RAMP_V	Soft Ramping constraint for constraint	4		0	U (		U (	J 0
#R007902_017_RAMP_V	Soft Ramping constraint for constraint	3		0	U (	0	U (	J 0
#R007902_022_RAMP_V	Soft Ramping constraint for constraint	1	<u> </u>	0	0 (	0	0 (	<u>)                                    </u>
#R007923_004_RAMP_F	Hard Ramping constraint for constraint	3	<u> </u>	0	0 (	0	0 (	0
#R007923_004_RAMP_V	Soft Ramping constraint for constraint	5	C	0	0 (	이 이	0 (	0
#R007923_005_RAMP_F	Hard Ramping constraint for constraint	2	C	0	0 (	0	0 (	0
#R007923_005_RAMP_V	Soft Ramping constraint for constraint	4	C	0	0 (	0	0 (	0
#R007923_010_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 (	0	0 (	0
#R007924_006_RAMP_F	Hard Ramping constraint for constraint	1	C	0	0 (	0	0	0
#R007924_006_RAMP_V	Soft Ramping constraint for constraint	1	C	0	0 (	0	0	0
#R007930_005_RAMP_V	Soft Ramping constraint for constraint	4	C	0	0 (	0	0	0
#R007930_006_RAMP_V	Soft Ramping constraint for constraint	3	C	0	0 (	ol ol	0 (	0
#R007930_011_RAMP_V	Soft Ramping constraint for constraint	2	C	0	0 0	0	0 (	0 0
#R007930_012_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0 (	ol ol	0	0
#R007937_006_RAMP_F	Hard Ramping constraint for constraint	1		0	ol d	ol <u>ol</u>	0	
#R007937_015_RAMP_V	Soft Ramping constraint for constraint	1	1	l ől	0 0	ol öl	0	
#R007943_015_RAMP_F	Hard Ramping constraint for constraint	1			0 0		0	) 0
#R007958_016_RAMP_V	Soft Ramping constraint for constraint	1	1				0 7	
#IXOU1 300_U IU_IXAWIF_V	Poor ramping constraint for constraint	ı	1	1 4	ا ا	<u>'I</u>	VI (	J <sub>1</sub> 0

MERCOSTE DOS. FRAMEP V   Soft Removing constraint for constraint   1		Ta 4 a	.1	-1						.1
NEOTRESON   PAMEN   V   Soft Remoting constraint for constraint   Soft   Soft   Pament   Pament   Pament   Soft   Pament   Pament   Soft   Pament   Pament   Soft   Pament   Pa			1	0	0	0	0	0 (	) (	0
##COPPED COD RAMP F   Hate Engraphs constraint of constraint   4   4   0   0   0   0   0   0   0   0			2	0	0	0	0	0 (	) (	0
##COMPAGE OS RAMP F   ** Hard Rampring constraint for constraint   1		' 6	1	0	0	0	0	0 (	) (	0
### RECORDING DOS PLANER V SOR TRANSPING constraint Not constraint 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			4	4	0	4	0.01	0 0.0		) 4
MICROPSEQ DIE RAMP   F   Hard Remping constraint for constraint   1   0   0   0   0   0   0   0   0   0		· · · · ·	1	0	0	0	0	0 (	) (	0
NEGOTIFIED COT   FAMAR   F   Hard Kamping constraint for constraint S   2   2   0   2   0.01   0   0   0   0   0   0   0   0   0		· · · ·	1	0	0	0	0	0 (	(	0
### ### ### ### ### ### ### ### ### ##		Soft Ramping constraint for constraint	1	0	0	0	0	0 (	) (	0
MERCOSTE DOS. FRAMEP V   Soft Removing constraint for constraint   1		Hard Ramping constraint for constraint S-	2	2	0	2	0.01	0.0	(	) 2
RROSSIGN   STAMP   F   Start Ramping constraint for constraint   1   0   0   0   0   0   0   0   0   0	#R007999_001_RAMP_V	Soft Ramping constraint for constraint S-	1	1	0	1	0	0 (	) (	1
RR089810_01_RAMP_V   Soft Ramping constraint for constraint   10	#R008016_005_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0 (	) (	0
ROBBORSS DOI RAMP V Soft Ramping constraint for constraint 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R008016_011_RAMP_F	Hard Ramping constraint for constraint	1	0	0	0	0	0 (	) (	0
ROBBOSCO 101 RAMP V Soft Ramping constraint or constraint 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R008016_011_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0 (	) (	0
REGRESSON_FOR_PAMP   Floar Ramping constraint for constraint   13	#R008035_001_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0 (		0
RR098093, OUR PAMP   F   Hord Ramping constraint for constraint   13	#R008035_001_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
ROB0937_001_RAMP   F   Hard Ramping constraint for constraint   13	#R008035_007_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
RR089837_00T_RAMP   F   Hard Ramping constraint for constraint   13	#R008035_007_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
ROBOSSY 2005, RAMP Y SOR Ramping constraint for constraint 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R008037_001_RAMP_F		13	0	0	0	0	0 (		0
ROBOSSY 2005, RAMP Y SOR Ramping constraint for constraint 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R008037_001_RAMP_V		13	0	0	0	0	0 (		0
R008097 002 RAMP V   Soft Ramping constraint for constraint   13   0   0   0   0   0   0   0   0   0	#R008037_002_RAMP_F		13	0	0	0	0	0 (	) (	0
ROBOBATO COS RAMP V Soft Ramping constraint of constraint 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R008037_002_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (		0
RR006937 OOF RAMP F   Hard Ramping constraint for constraint   13   0   0   0   0   0   0   0   0   0	#R008037_003_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
RR000837_004_RAMP_Y	#R008037_003_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (		0
RR008037 005 RAMP F   Hard Ramping constraint for constraint   13	#R008037_004_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
#R000937_005_RAMP_V	#R008037_004_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
#R000937_005_RAMP_V	#R008037_005_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
RR008037 006 RAMP F Hard Ramping constraint for constraint 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R008037_005_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
R008037_006_RAMP_V   Soft Ramping constraint for constraint   13	#R008037_006_RAMP_F		13	0	0	0	0	0 (	) (	0
RR008037 007 RAMP F   Hard Ramping constraint for constraint   13   0   0   0   0   0   0   0   0   0	#R008037_006_RAMP_V		13	0	0	0	0	0 (	) (	0
RR008037 008 RAMP F   Hard Ramping constraint for constraint   13   0   0   0   0   0   0   0   0   0	#R008037_007_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
#R008037 008 RAMP V Soft Ramping constraint for constraint 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R008037_007_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
#R008039 001 RAMP F Hard Ramping constraint for constraint SV 250, 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R008037_008_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
IRROBROSS  001   RAMP   V   Soft Ramping constraint for constraint   SV   250,   13   0   0   0   0   0   0   0   0   0	#R008037_008_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
RR08083   002 RAMP   F	#R008039_001_RAMP_F	Hard Ramping constraint for constraint SV_250,	13	0	0	0	0	0 (	) (	0
RR08039   OS   RAMP   V   Soft Ramping constraint for constraint   13   0   0   0   0   0   0   0   0   0	#R008039_001_RAMP_V	Soft Ramping constraint for constraint SV_250,	13	0	0	0	0	0 (	) (	0
RR08039_003_RAMP_F   Hard Ramping constraint for constraint   13	#R008039_002_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
RR08039_003_RAMP_F   Hard Ramping constraint for constraint   13	#R008039_002_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
#R008039_004_RAMP_F	#R008039_003_RAMP_F	Hard Ramping constraint for constraint		0	0	0	0	0 (	) (	0
#R008039_004_RAMP_V	#R008039_003_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
#R008039_005_RAMP_F	#R008039_004_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
#R008039_005_RAMP_F	#R008039_004_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0
#R008039_005_RAMP_V	#R008039_005_RAMP_F		13	0	0	0	0	0 (		0
#R008039_006_RAMP_F	#R008039_005_RAMP_V	· · · ·	13	0	0	0	0	0 (		0
#R008039_007_RAMP_F	#R008039_006_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0 (		0
#R008039_007_RAMP_V	#R008039_006_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (		0
#R008039_008_RAMP_F	#R008039_007_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0 (		0
#R008039_008_RAMP_F	#R008039_007_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (		0
#R008039_008_RAMP_V	#R008039_008_RAMP_F	Hard Ramping constraint for constraint		0	0	0	0	0 (		0
#R008039_009_RAMP_F	#R008039_008_RAMP_V	· · · ·		0	0	0	0	0 (		0
#R008039_010_RAMP_F Hard Ramping constraint for constraint 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R008039_009_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0 (		0
#R008039_010_RAMP_F Hard Ramping constraint for constraint 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R008039_009_RAMP_V	· · · ·	13	0	0	0	0	0 (		0
#R008039_010_RAMP_V	#R008039_010_RAMP_F	Hard Ramping constraint for constraint		0	0	0	0	0 (		0
#R008039_011_RAMP_V Soft Ramping constraint for constraint 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R008039_010_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (		0
#R008039_012_RAMP_F Hard Ramping constraint for constraint 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R008039_011_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	0 (		0
#R008039_012_RAMP_F Hard Ramping constraint for constraint 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R008039_011_RAMP_V			0	0	0	0	0 (		0
#R008039_012_RAMP_V Soft Ramping constraint for constraint 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#R008039_012_RAMP_F	· •		0	0	0	0	0 (		0
#R008039_013_RAMP_F Hard Ramping constraint for constraint 13 0 0 0 0 0 0 0 0 0	#R008039_012_RAMP_V			0	0	0	0	0 (	) (	0
	#R008039_013_RAMP_F			0	0	0	0	0 (	) (	0
mvooooo_o ro_nanii _v   joon vampiig oonsiiaini ioi oonsiiaini   ioj 0  0  0  0  0  0  0  0  0  0	#R008039_013_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0 (	) (	0

"D000000 044 DAMP F	U 15 1 1111 1111	40		1 0	-			.1	<u> </u>	J 0
	Hard Ramping constraint for constraint	13	0	0	0	0	0			0
	Soft Ramping constraint for constraint	13	0	0	0	0	C	) (	) (	) 0
	Hard Ramping constraint for constraint	13	0	0	0	0	C	) (	0 (	) 0
	Soft Ramping constraint for constraint	13	0	0	0	0	C	) (	0 (	) 0
	Hard Ramping constraint for constraint	13	0	0	0	0	0	) (	0	) 0
	Soft Ramping constraint for constraint	13	0	0	0	0	0	) (	) (	) 0
	Hard Ramping constraint for constraint	13	0	0	0	0	0	) (	) (	) 0
	Soft Ramping constraint for constraint	13	0	0	0	0	0	) (	) (	) 0
#R008039_018_RAMP_F	Hard Ramping constraint for constraint VS_250,	13	0	0	0	0	C	) (		0
#R008039_018_RAMP_V	Soft Ramping constraint for constraint VS_250,	13	0	0	0	0	O	)		0
#R008039_019_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	C		) (	0
#R008039_019_RAMP_V	Soft Ramping constraint for constraint	13	0	0	0	0	0	) (		) 0
#R008039_020_RAMP_F	Hard Ramping constraint for constraint	13	0	0	0	0	C	) (	) (	) 0
	Soft Ramping constraint for constraint	13	0	0	0	0	C	) (	) (	0
	Hard Ramping constraint for constraint SV_200,	13	0	0	0	0	C	) (	) (	0
	Soft Ramping constraint for constraint SV_200,	13	0	0	0	0	O	) (		0
	Hard Ramping constraint for constraint	13	0	0	0	0	0			) 0
	Soft Ramping constraint for constraint	13	0	0	0	0	0			
	Hard Ramping constraint for constraint	13	0	0	n	0	0			
	Soft Ramping constraint for constraint	13	0	0	<u> </u>	n	n			) 0
	Hard Ramping constraint for constraint	13	0		0	0	0			) 0
	Soft Ramping constraint for constraint	13	0	0	0	0	0			) 0
	Hard Ramping constraint for constraint	13	0	0	0	0	0	) (		
	Soft Ramping constraint for constraint	13	0	0	0	0	0			7
	Hard Ramping constraint for constraint	13	0	0	0	0	0			7
	Soft Ramping constraint for constraint	13	0	0	0	0				7
	Hard Ramping constraint for constraint	13	0	0	0	0				7 0
	Soft Ramping constraint for constraint	13	0	0	0	0	0			7
	Hard Ramping constraint for constraint	13	0	0	0	0	0			1 0
	Soft Ramping constraint for constraint	13	0	0	0	0	0			1 0
	Hard Ramping constraint for constraint	13	0	0	0	0	0			1 0
	Soft Ramping constraint for constraint	13	0	0	0	0				7
	Hard Ramping constraint for constraint	13	0		0	0	0			7
	Soft Ramping constraint for constraint	13	0	0	0	0	0			9
	Hard Ramping constraint for constraint	13	0	0	0	0	0			9
	Soft Ramping constraint for constraint	13	0	0	0	0	0		<u> </u>	
		13	0	0	0	0	0			7 0
	Hard Ramping constraint for constraint		0	0	0	0	0			7 0
	Soft Ramping constraint for constraint	13	0	0	0	0	0			<u>/</u>
	Hard Ramping constraint for constraint	13	0	0	0	0	0			) 0
	Soft Ramping constraint for constraint	13	0	0	0	0	0			7 0
	Hard Ramping constraint for constraint	13	0	0	0	0	0			7 0
	Soft Ramping constraint for constraint V::S_HYSE,	13	0	0	0	0	0			7 0
	Hard Ramping constraint for constraint VS_250,	13	0	0	0	0	0			) 0
	Soft Ramping constraint for constraint VS_250,	13	0	0	0	0	0			) 0
#R008044_001_RAMP_V	Soft Ramping constraint for constraint SV_200,	1	0	0	0	0	0			0
#R008054_002_RAMP_V	Soft Ramping constraint for constraint	1	0	0	0	0	0		) (	0
#R008084_010_RAMP_V	Soft Ramping constraint for constraint	10	0	0	0	0	0	) (	) (	) 0
	Hard Ramping constraint for constraint	10	0	0	0	0	0	)  (	) <u> </u>	<u>)</u> 0
	Soft Ramping constraint for constraint	3	0	0	0	0	C	)  (	)  (	<u>)</u> 0
	Soft Ramping constraint for constraint	2	0	0	0	0	C	) (	)  (	<u>)</u> 0
	Hard Ramping constraint for constraint	1	0	0	0	0	C	) (	) (	<u>)</u> 0
	Hard Ramping constraint for constraint	1	0	0	0	0	C	) (	0 (	<u>)</u> 0
	Soft Ramping constraint for constraint	3	0	0	0	0	C	) (	0 (	<u>)</u> 0
	Hard Ramping constraint for constraint	3	0	0	0	0	0	) (	0	<u>ر</u>
	Soft Ramping constraint for constraint	4	0	0	0	0	0	) (	) (	) 0
	Soft Ramping constraint for constraint	3	0	0	0	0	C	) (		0
#V-SA_RAMP_E_F	V-SA <= MAX(0, InitialFlow - 30) (Wt=20)	1	0	0	0	0	C	) (	) (	0
#V-SA_RAMP_E_F	V-SA <= MAX(10, InitialFlow - 30) (Wt=20)	4	0	0	0	0	C	) (		0

10 / OA BAMB E E	N 04 MAN(400 L :: 151 00) (M( 00)				41	ام			1 0	
#V-SA_RAMP_E_F	V-SA <= MAX(126, InitialFlow - 30) (Wt=20)	5	1	0	1	0	0	0	0	1
#V-SA_RAMP_E_F	V-SA <= MAX(134, InitialFlow - 30) (Wt=20)	3	0	0	0	0	0	C	0	0
#V-SA_RAMP_E_F	V-SA <= MAX(145, InitialFlow - 30) (Wt=20)	3	0	0	0	0	0	C	0	0
#V-SA_RAMP_E_F	V-SA <= MAX(15, InitialFlow - 30) (Wt=20)	4	0	0	0	0	0	C	0	0
#V-SA_RAMP_E_F	V-SA <= MAX(155, InitialFlow - 30) (Wt=20)	10		0	0	0	0	C	0	0
#V-SA_RAMP_E_F	V-SA <= MAX(185, InitialFlow - 30) (Wt=20)	10	1	0	1	0	0	0	0	1
#V-SA_RAMP_E_F	V-SA <= MAX(188, InitialFlow - 30) (Wt=20)	3	0	0	0	0	0	C	0	0
#V-SA_RAMP_E_F	V-SA <= MAX(20, InitialFlow - 30) (Wt=20)	4	0	0	0	0	0	0	0	0
#V-SA_RAMP_E_F	V-SA <= MAX(22, InitialFlow - 30) (Wt=20)	2	0	0	0	0	0	0	0	0
#V-SA_RAMP_E_F	V-SA <= MAX(230, InitialFlow - 30) (Wt=20)	2	0	0	0	0	0	0	0	0
#V-SA_RAMP_E_F	V-SA <= MAX(250, InitialFlow - 30) (Wt=20)	8	8	0	8	0.03	0	0.03	0	8
#V-SA_RAMP_E_F	V-SA <= MAX(50, InitialFlow - 30) (Wt=20)	4	0	0	0	0	0	0	0	0
#V-SA_RAMP_E_F	V-SA <= MAX(53, InitialFlow - 30) (Wt=20)	6	2	0	2	0.01	0	0.01	0	2
#V-SA_RAMP_E_F	V-SA >= MIN(165, InitialFlow + 50) (Wt=20)	1	0	0	0	0	0	C	0	0
#V-SA_RAMP_I_F	V-SA <= MAX(-1, InitialFlow - 30) (Wt=20)	3	0	0	0	0	0	C	0	0
#V-SA_RAMP_I_F	V-SA <= MAX(-105, InitialFlow - 30) (Wt=20)	9	0	0	0	0	0	C	0	0
#V-SA_RAMP_I_F	V-SA <= MAX(-33, InitialFlow - 30) (Wt=20)	4	0	0	0	0	0	0	0	0
#V-SA_RAMP_I_F	V-SA <= MAX(-50, InitialFlow - 30) (Wt=20)	3	0	0	0	0	0	0	0	0
#V-SA_RAMP_I_F	V-SA <= MAX(-57, InitialFlow - 30) (Wt=20)	3	0	0	0	0	0	0	0	0
#V-SA_RAMP_I_F	V-SA <= MAX(-80, InitialFlow - 30) (Wt=20)	12	7	0	7	0.02	0	0.02	. 0	7
#V-SA_RAMP_I_F	V-SA <= MAX(-92, InitialFlow - 30) (Wt=20)	4	0	0	0	0	0	C	0	0
#V-SA_RAMP_I_F	V-SA >= MIN(-10, InitialFlow + 50) (Wt=20)	4	0	0	0	0	0	C	0	0
#V-SA_RAMP_I_F	V-SA >= MIN(-122, InitialFlow + 50) (Wt=20)	5	1	0	1	0	0	C	0	1
#V-SA_RAMP_I_F	V-SA >= MIN(-128, InitialFlow + 50) (Wt=20)	4	3	0	3	0.01	0	0.01	0	3
#V-SA_RAMP_I_F	V-SA >= MIN(-43, InitialFlow + 50) (Wt=20)	5	4	0	4	0.01	0	0.01	0	4
#V-SA_RAMP_I_F	V-SA >= MIN(-61, InitialFlow + 50) (Wt=20)	4	2	0	2	0.01	0	0.01	0	2
#V-SA_RAMP_I_F	V-SA >= MIN(-70, InitialFlow + 50) (Wt=20)	10	6	0	6	0.02	0	0.02	. 0	6
#V-SA_RAMP_I_F	V-SA >= MIN(-80, InitialFlow + 50) (Wt=20)	6	0	0	0	0	0	C	0	0
#V-SA_RAMP_I_F	V-SA >= MIN(-85, InitialFlow + 50) (Wt=20)	5	0	0	0	0	0	C	0	0
#V-SA_RAMP_I_F	V-SA >= MIN(-86, InitialFlow + 50) (Wt=20)	3	3	0	3	0.01	0	0.01	0	3
#V-SA_RAMP_I_F	V-SA >= MIN(-90, InitialFlow + 50) (Wt=20)	6	0	0	0	0	0	C	0	0
#V-SA_RAMP_I_F	V-SA >= MIN(-91, InitialFlow + 50) (Wt=20)	4	0	0	0	0	0	C	0	0
#V-S-MNSP1_I_E	V-S-MNSP1.ENERGY * -1 = 31 (Wt = 20)	23	0	0	0	0	0	C	0	0
#V-S-MNSP1_I_E	V-S-MNSP1.ENERGY * -1 = 50 (Wt = 20)	9	9	0	9	0.03	0	0.03	9	9
@OSBTOA_3	Eff = 02/11/2012 ; RHS = 380 ; Op = "<=" ; Wt =	26	18	18	0	0.06	0.06	C	0	18
@OSBTOA_3	Eff = 03/11/2012; RHS = 380; Op = "<="; Wt =	245	136	136	0	0.47	0.47	C	0	136
@OSBTOA_3	Eff = 04/11/2012 ; RHS = 425 ; Op = "<=" ; Wt =	9	3	3	0	0.01	0.01	C	0	3
@OSBTOA_3	Eff = 05/11/2012 ; RHS = 380 ; Op = "<=" ; Wt =	258	158	158	0	0.55	0.55	C	0	158
@TIPSA_ET_TRANSF	Eff = 02/11/2012 ; RHS = 450 ; Op = "<=" ; Wt =	10	10	0	10	0.03	0	0.03	10	10
CA_MQS_3FA51EAC_01	Constraint Automation, O/L OSBTOA_3	88	63	0	63	0.22	0	0.22	63	63
CA_MQS_3FAAB8EA_01	Constraint Automation, O/L N_W_B TRANSF	354	3	0	3	0.01	0	0.01	3	3
CA_MQS_3FC98EBF_01	Constraint Automation, O/L TABKEI_1	6	6	0	6	0.02	0	0.02	0	6
CA_SPS_3EF2F2EF_01	Constraint Automation, O/L DDTS TRANSF	2	2	0	2	0.01	0	0.01	0	2
DATASNAP	Reference Constraint to check measurement;	576	0	0	0	0	0	C	0	0
DATASNAP_DPTX_1	Compare Armidale, Tamworth Total load and	576	0	0	0	0	0	C	0	0
DATASNAP_NILQ1	Test - NEVER TO BIND. Out = NIL, prevent	465	0	0	0	0	0	C	0	0
DATASNAP_NILQ2	Test - NEVER TO BIND. Out = NIL, prevent	177	0	0	0	0	0	C	0	0
DATASNAP_NILQ2	Test - NEVER TO BIND. Out = NIL, prevent	288	0	0	0	0	0	C	0	0
DATASNAP_NILQ3	Test - NEVER TO BIND. Out = NIL, prevent	288	0	0	0	0	0	C	0	0
DATASNAP_NILQ3	Test - NEVER TO BIND. Out = NIL, prevent	177		0	0	0	0	0	0	0
DATASNAP_NILQ4	Test - NEVER TO BIND. Out = NIL, prevent	465		0	0	0	0	0	0	0
DATASNAP_NILS1	Test - NEVER TO BIND. Out = NIL, prevent	288	0	0	0	0	0	0	0	0
DATASNAP_NILS1	Test - NEVER TO BIND. Out = NIL, prevent	177	0	0	0	0	0	0	0	0
DATASNAP_NILS2	Test - NEVER TO BIND. Out = NIL, prevent	177	0	0	0	0	0	0	0	0
DATASNAP_NILS2	Test - NEVER TO BIND. Out = NIL, prevent	288	0	0	0	0	0	0	0	0
DATASNAP_NILS3	Test - NEVER TO BIND. Out = NIL, prevent	177		0	0	0	0	0	0	0
DATASNAP_NILS4	Test - NEVER TO BIND. Out = NIL, prevent	177	0	0	0	0	0	0	0	0
DATASNAP_NILV1	Test - NEVER TO BIND. Out = NIL, prevent	177	0	0	0	0	0	0	0	0
	•									

DATASNAP NILV1	Test - NEVER TO BIND. Out = NIL, prevent	200	0	ا ما	٥	٥	0	J o	<u> </u>	
DATASNAP_NILV1  DATASNAP NILV2	Test - NEVER TO BIND. Out = NIL, prevent	288 177	0	0	0	0	0	<u> </u>		
DATASNAP_NILV2  DATASNAP_NILV2	Test - NEVER TO BIND. Out = NIL, prevent	288	0	0	0	0	0	<u> </u>		
		200 177	0	0	0	0	0	0	(	0
DATASNAP_NILV3 DATASNAP NILV4	Test - NEVER TO BIND. Out = NIL, prevent		0	0	0	0	0			0
<del>_</del>	Test - NEVER TO BIND. Out = NIL, prevent	177	0	0	0	0	0			0
F_ESTN++HYML_L5	Out = one Heywood to Moorabool (HYTS-MLTS)	1497	0	0	0	0	0			0
F_ESTN++HYML_L6	Out = one Heywood to Moorabool (HYTS-MLTS)	287	0	0	0	0	0			0
F_ESTN++HYML_L60	Out = one Heywood to Moorabool (HYTS-MLTS)	1532	0	0	0	0	0			0
F_ESTN++HYML_R5	Out = one Heywood to Moorabool (HYTS-MLTS)	182	0	0	0	0	0			0
F_ESTN++HYML_R6	Out = one Heywood to Moorabool (HYTS-MLTS)	182	0	0	0	0	0	0		0
F_ESTN++HYML_R60	Out = one Heywood to Moorabool (HYTS-MLTS)	182	0	0	0	0	0	0	) (	0
F_ESTN++HYMO_L5	Out = Heywood to Mortlake (HYTS-MOPS) line	606	0	0	0	0	0	0	) (	0
F_ESTN++HYMO_L6	Out = Heywood to Mortlake (HYTS-MOPS) line,	93	0	0	0	0	0	0	(	0
F_ESTN++HYMO_L60	Out = Heywood to Mortlake (HYTS-MOPS) line,	838	0	0	0	0	0	C	(	0
F_ESTN++HYMO_R5	Out = Heywood to Mortlake (HYTS-MOPS) line,	92	0	0	0	0	0	C	(	0
F_ESTN++HYMO_R6	Out = Heywood to Mortlake (HYTS-MOPS) line,	92	0	0	0	0	0	0	) (	0
F_ESTN++HYMO_R60	Out = Heywood to Mortlake (HYTS-MOPS) line,	92	0	0	0	0	0	0	) (	0
F_ESTN++HYSE_L5	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	0	0	) (	0
F_ESTN++HYSE_L6	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	0	0	) (	0
F_ESTN++HYSE_L60	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	0	0		0
F_ESTN++HYSE_R5	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	0	0		0
F_ESTN++HYSE_R6	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	0	0		0
F_ESTN++HYSE_R60	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	0	0		0
F_ESTN++HYTR_L5	Out = Heywood to Tarrone (HYTS-TRTS) line	80	0	0	0	0	0	0	(	0
F_ESTN++HYTR_L60	Out = Heywood to Tarrone (HYTS-TRTS) line,	108	0	0	0	0	0	0	)	0
F_ESTN++MLTR_L5	Out = Moorabool to Tarrone (MLTS-TRTS) line,	115	0	0	0	0	0	0	)	0
F_ESTN++MLTR_L60	Out = Moorabool to Tarrone (MLTS-TRTS) line,	107	0	0	0	0	0	0	)	0
F_I+APHY_L5	Out=Heywood to Alcoa Portland 500kV line, Lower	18061	0	0	0	0	0	0	)	0
F_I+APHY_L6	Out=Heywood to Alcoa Portland 500kV line, Lower	191	0	0	0	0	0	0	)	0
F_I+APHY_L60	Out=Heywood to Alcoa Portland 500kV line, Lower	8805	0	0	0	0	0	0	)	0
F_I+BBGT_BB_TG_R5	Out= One Bell Bay - Georgetown 110 kV line, all	288	0	0	0	0	0	0	)	0
F_I+BBGT_BB_TG_R6	Out= One Bell Bay - Georgetown 110 kV line, all	288	0	0	0	0	0	0	)	0
F_I+BBGT_BB_TG_R60	Out= One Bell Bay - Georgetown 110 kV line, all	288	0	0	0	0	0	0	)	0
F_I+ML_L5_0400	Out = Nil, Lower 5 min requirement for a NEM	72226	0	0	0	0	0	0	)	0
F_I+ML_L5_0500	Out = Nil, Lower 5 min requirement for a NEM	1	0	0	0	0	0	0	)	0
F_I+ML_L5_APD	Out = Nil, Lower 5 min requirement for a NEM	4451	0	0	0	0	0	0	(	0
F_I+ML_L6_0400	Out = Nil, Lower 6 sec requirement for a NEM	23970	0	0	0	0	0	0	)	0
F_I+ML_L6_0500	Out = Nil, Lower 6 sec requirement for a NEM	1	0	0	0	0	0	0	) (	0
F_I+ML_L6_APD	Out = Nil, Lower 6 sec requirement for a NEM	2433	0	0	0	0	0	0	) (	0
F_I+ML_L60_0400	Out = Nil, Lower 60 sec requirement for a NEM	11735	0	0	0	0	0	0		0
F_I+ML_L60_0500	Out = Nil, Lower 60 sec requirement for a NEM	1	0	0	0	0	0	0	) (	0
F_I+ML_L60_APD	Out = Nil, Lower 60 sec requirement for a NEM	1747	0	0	0	0	0	0	) (	0
F_I+NIL_BB_TG_R5	Out= Nil, Global Raise 5 min requirement for loss	576	0	0	0	0	0	0		0
F_I+NIL_BB_TG_R6	Out= Nil, Global Raise 6 sec requirement for loss	576	0	0	0	0	0	0		0
F_I+NIL_BB_TG_R60	Out= Nil, Global Raise 60 sec requirement for loss	576	0	0	0	0	0	0		0
F_I+NIL_DYN_LREG	NEM Lower Regulation Requirement, Feedback in	79650	19	0	19	0.07	0	0.07	' (	19
F_I+NIL_DYN_RREG	NEM Raise Regulation Requirement, Feedback in	19792	3	0	3	0.01	0	0.01		3
F_I+NIL_MG_R5	Out = Nil, Raise 5 min requirement for a NEM	90003	0	0	0	0	0	0		0
F_I+NIL_MG_R6	Out = Nil, Raise 6 sec requirement for a NEM	76606	1	0	1	0	0	0		1
F_I+NIL_MG_R60	Out = Nil, Raise 60 sec requirement for a NEM	75481	0	0	0	0	0	0		0
F_I+NIL_WN_TG_R5	Out= Nil, Global Raise 5 min requirement for loss	576	0	0	0	0	0	0		0
F_I+NIL_WN_TG_R6	Out= Nil, Global Raise 6 sec requirement for loss	576	0	0	0	0	0	0		0
F_I+NIL_WN_TG_R60	Out= Nil, Global Raise 60 sec requirement for loss	576	0	0	0	0	0	0		0
F_I+RREG_0300	NEM Raise Regulation Requirement greater than	8	0	0	0	0	0	0		0
F_I+RREG_0350	NEM Raise Regulation Requirement greater than	31	12	0	12	0.04	0	0.04	. (	12
F_I+TL_L5_0200	Lower 5 min Service Requirement for a NEM	576	0	0	0	0	0	0		0
F_I+TL_L5_0450	Lower 5 min Service Requirement for a NEM	6	0	0	0	0	0	0		0
F_I+TL_L5_0500	Lower 5 min Service Requirement for a NEM	15	0	0	0	0	0	0		0
		. • [		<u>.                                    </u>	<u> </u>			<u>.                                      </u>	<u> </u>	1

F I+TL L6 0200	Lower 6 sec Service Requirement for a NEM	576	0	ام	0	0			
F I+TL L60 0200	Lower 60 sec Service Requirement for a NEM	576 576	0	0	0	0	0	0 0	0
F I+TL L60 0450	Lower 60 sec Service Requirement for a NEM	370	0	0	0	0		0 0	0
F MAIN++APHY L5	Out=Heywood to Alcoa Portland 500kV line, Lower	6314	277	0	277	0.96		.96 277	277
F MAIN++APHY L6	Out=Heywood to Alcoa Portland 500kV line, Lower	191	211	0	211	0.90		.90 211	211
F MAIN++APHY L60	Out=Heywood to Alcoa Portland 500kV line, Lower	2660	0	0	0	0	0	0 0	0
F_MAIN++ML L5 0400		20772	189	0	189	0.66	0	.66	189
F_MAIN++ML_L5_0400 F_MAIN++ML_L5_0500	Out = Nil, Lower 5 min requirement for a Mainland	20112	109	0	109	0.00	0 0	.00	109
F_MAIN++ML_L5_0500 F_MAIN++ML_L5_APD	Out = Nil, Lower 5 min requirement for a Mainland	818	0	0	0	0	0	0 0	0
	Out = Nil, Lower 5 min requirement for a Mainland		0	0	0	0	0	0 (	0
F_MAIN++ML_L6_0400	Out = Nil, Lower 6 sec requirement for a Mainland	16072	0	0	0	0	0	0 (	0
F_MAIN++ML_L6_0500	Out = Nil, Lower 6 sec requirement for a Mainland	200	0	0	0	0	0	0 (	0
F_MAIN++ML_L6_APD	Out = Nil, Lower 6 sec requirement for a Mainland	322	0	0	0	0	0	0 0	0
F_MAIN++ML_L60_0400	Out = Nil, Lower 60 sec requirement for a	3892	0	0	0	0	0	0 0	0
F_MAIN++ML_L60_0500	Out = Nil, Lower 60 sec requirement for a	1	0	0	0	0	0	0 (	0
F_MAIN++ML_L60_APD	Out = Nil, Lower 60 sec requirement for a	643	0	0	0	0	0	0 (	0
F_MAIN++NIL_BL_L5	Mainland Lower 5 min Requirement for loss of	576	0	0	0	0	0	0 (	0
F_MAIN++NIL_BL_L6	Mainland Lower 6 second Requirement for loss of	576	0	0	0	0	0	0 (	0
F_MAIN++NIL_BL_L60	Mainland Lower 60 second Requirement for loss	15694	0	0	0	0	0	0 (	0
F_MAIN++NIL_BL_R5	Mainland Raise 5 min Requirement for loss of	576	0	0	0	0	0	0 (	0
F_MAIN++NIL_BL_R6	Mainland Raise 6 second Requirement for loss of	576	0	0	0	0	0	0 (	0
F_MAIN++NIL_BL_R60	Mainland Raise 60 second Requirement for loss of	579	0	0	0	0	0	0 (	0
F_MAIN++NIL_DYN_LREG	Mainland Lower Regulation Requirement,	2175	23		23	0.08		.08	23
F_MAIN++NIL_DYN_RREG	Mainland Raise Regulation Requirement,	1036	16		16	0.06		.06	16
F_MAIN++NIL_MG_R5	Out = Nil, Raise 5 min requirement for a Mainland	21153	39	0	39	0.14		.14	39
F_MAIN++NIL_MG_R6	Out = Nil, Raise 6 sec requirement for a Mainland	27466	11	0	11	0.04	0 0	.04	11
F_MAIN++NIL_MG_R60	Out = Nil, Raise 60 sec requirement for a Mainland	32240	0	0	0	0	0	0 (	0
F_MAIN++RREG_0300	Mainland Raise Regulation Requirement greater	9	0	0	0	0	0	0 (	0
F_MAIN++RREG_0350	Mainland Raise Regulation Requirement greater	6	5	0	5	0.02	0 0	.02	5
F_MAIN++TL_L5_0450	Out = Nil, Lower 5 min Service Requirement for a	5	0	0	0	0	0	0 (	0
F_MAIN++TL_L60_0450	Out = Nil, Lower 60 sec Service Requirement for a	1	0	0	0	0	0	0 (	0
F_MAIN+APHY_L5	Out=Heywood to Alcoa Portland 500kV line, Lower	1091	0	0	0	0	0	0 (	0
F_MAIN+APHY_L6	Out=Heywood to Alcoa Portland 500kV line, Lower	191	0	0	0	0	0	0 (	0
F_MAIN+APHY_L60	Out=Heywood to Alcoa Portland 500kV line, Lower	1012	0	0	0	0	0	0 (	0
F_MAIN+ML_L5_0400	Out = Nil, Lower 5 min requirement for a Mainland	4031	2	0	2	0.01	0 0	.01 (	2
F_MAIN+ML_L5_0500	Out = Nil, Lower 5 min requirement for a Mainland	1	0	0	0	0	0	0 (	0
F_MAIN+ML_L5_APD	Out = Nil, Lower 5 min requirement for a Mainland	337	0	0	0	0	0	0 (	0
F_MAIN+ML_L6_0400	Out = Nil, Lower 6 sec requirement for a Mainland	4681	0	0	0	0	0	0 (	0
F_MAIN+ML_L6_0500	Out = Nil, Lower 6 sec requirement for a Mainland	1	0	0	0	0	0	0 (	0
F_MAIN+ML_L6_APD	Out = Nil, Lower 6 sec requirement for a Mainland	337	0	0	0	0	0	0 (	0
F MAIN+ML L60 0400	Out = Nil, Lower 60 sec requirement for a	3676	0	0	0	0	0	0 (	0
F_MAIN+ML_L60_0500	Out = Nil, Lower 60 sec requirement for a	1	0	0	0	0	0	0 (	0
F MAIN+ML L60 APD	Out = Nil, Lower 60 sec requirement for a	337	0	0	0	0	0	0 (	0
F_MAIN+NIL_DYN_LREG	Mainland Lower Regulation Requirement,	2434	16	0	16	0.06	0 0	.06	16
F MAIN+NIL DYN RREG	Mainland Raise Regulation Requirement,	1570	12		12	0.04		.04	12
F MAIN+NIL MG R5	Out = Nil, Raise 5 min requirement for a Mainland	8961	6	0	6	0.02		.02 (	) 6
F MAIN+NIL MG R6	Out = Nil, Raise 6 sec requirement for a Mainland	8961	18	0	18	0.06		.06	18
F_MAIN+NIL_MG_R60	Out = Nil, Raise 60 sec requirement for a Mainland	8961	1	0	1	0.00	0	0 (	) 1
F_NVS++ARTW_R5	Out = Armidale to Tamworth (85 or 86) line, NSW,	19	n	n	0	0	n n	0 0	) ^
F QNV++HYML L5	Out = one Heywood to Moorabool (HYTS-MLTS)	734	0	n	0	0	0	0 0	) 0
F QNV++HYML L6	Out = one Heywood to Moorabool (HYTS-MLTS)	225	0	n	0	0	0	0 0	) 0
F QNV++HYML L60	Out = one Heywood to Moorabool (HYTS-MLTS)	813	0	n	0	0	n n	0 0	
F QNV++HYML R5	Out = one Heywood to Moorabool (HYTS-MLTS)	182	0	n	0	0	n ol	0 0	
F_QNV++HYML_R6	Out = one Heywood to Moorabool (HYTS-MLTS)	182	0	0	0	0		0 0	) 0
F QNV++HYML R60	Out = one Heywood to Moorabool (HYTS-MLTS)	182	0	0	0	0		0 0	) 0
F_QNV++HYMO_L5	Out = Heywood to Mortlake (HYTS-MOPS) line,	186	0	0	0	0			) 0
F_QNV++HYMO_L5 F_QNV++HYMO_L6	Out = Heywood to Mortlake (HYTS-MOPS) line,  Out = Heywood to Mortlake (HYTS-MOPS) line,	92	0	0	0	0			) <u> </u>
F_QNV++HYMO_L6 F QNV++HYMO L60	Out = Heywood to Mortlake (HYTS-MOPS) line,  Out = Heywood to Mortlake (HYTS-MOPS) line,	212	0	0	0	0			) <u> </u>
	· · · · · · · · · · · · · · · · · · ·		0	0	0	0			) <u> </u>
F_QNV++HYMO_R5	Out = Heywood to Mortlake (HYTS-MOPS) line,	92	0	0	0	0	U U	UJ (	<u> </u>

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F_QNV++HYMO_R6	Out = Heywood to Mortlake (HYTS-MOPS) line,	92	0	0	0	0	<u> </u>		0	0
F_QNV++HYMO_R60	Out = Heywood to Mortlake (HYTS-MOPS) line,	92	0	0	0	0			0	0
F_QNV++HYSE_L5	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0			0	0
F_QNV++HYSE_L6	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	9	0	0	0
F_QNV++HYSE_L60	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	9	0	0	0
F_QNV++HYSE_R5	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	(	0	0	0
F_QNV++HYSE_R6	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	<u> </u>	0	0	0
F_QNV++HYSE_R60	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	(	0	0	0
F_QNV++HYTR_L60	Out = Heywood to Tarrone (HYTS-TRTS) line,	1	0	0	0	0	(	0	0	0
F_QNV+HYML_L5	Out = one Heywood to Moorabool (HYTS-MLTS)	319	1	0	1	0	(	0	1	1
F_QNV+HYML_L6	Out = one Heywood to Moorabool (HYTS-MLTS)	286	0	0	0	0	C	0	0	0
F_QNV+HYML_L60	Out = one Heywood to Moorabool (HYTS-MLTS)	330	0	0	0	0	C	0	0	0
F_QNV+HYML_R5	Out = one Heywood to Moorabool (HYTS-MLTS)	182	0	0	0	0	C	0	0	0
F_QNV+HYML_R6	Out = one Heywood to Moorabool (HYTS-MLTS)	182	0	0	0	0	C	0	0	0
F_QNV+HYML_R60	Out = one Heywood to Moorabool (HYTS-MLTS)	182	0	0	0	0	C	0	0	0
F_QNV+HYMO_L5	Out = Heywood to Mortlake (HYTS-MOPS) line,	106	0	0	0	0	C	0	0	0
F_QNV+HYMO_L6	Out = Heywood to Mortlake (HYTS-MOPS) line,	92	0	0	0	0	C	0	0	0
F_QNV+HYMO_L60	Out = Heywood to Mortlake (HYTS-MOPS) line,	148	0	0	0	0	C	0	0	0
F_QNV+HYMO_R5	Out = Heywood to Mortlake (HYTS-MOPS) line,	92	0	0	0	0	C	0	0	0
F_QNV+HYMO_R6	Out = Heywood to Mortlake (HYTS-MOPS) line,	92	0	0	0	0	C	0	0	0
F_QNV+HYMO_R60	Out = Heywood to Mortlake (HYTS-MOPS) line,	92	0	0	0	0	C	0	0	0
F_QNV+HYSE_L5	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	C	0	0	0
F_QNV+HYSE_L6	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	C	0	0	0
F_QNV+HYSE_L60	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	C	0	0	0
F_QNV+HYSE_R5	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	C	0	0	0
F_QNV+HYSE_R6	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	C	0	0	0
F_QNV+HYSE_R60	Out = one Heywood to South East (HYTS-SESS)	92	0	0	0	0	C	0	0	0
F_S++HYML_L5	Out = one Heywood to Moorabool (HYTS-MLTS)	469	10	0	10	0.03	C	0.03	10	10
F_S++HYML_L5	Out = one line between Heywood and Moorabool	289	31	0	31	0.11	C	0.11	31	31
F_S++HYML_L6	Out = one Heywood to Moorabool (HYTS-MLTS)	460	0	0	0	0	C	0	0	0
F_S++HYML_L6	Out = one line between Heywood and Moorabool	317	1	0	1	0	C	0	1	1
F_S++HYML_L60	Out = one Heywood to Moorabool (HYTS-MLTS)	626	87		87	0.3		0.3		87
F_S++HYML_L60	Out = one line between Heywood and Moorabool	522	65		65	0.23	C	0.23		
F_S++HYSE_L5	Out = one Heywood to South East (HYTS-SESS)	1144	57	0	57	0.2	C	0.2	57	57
F_S++HYSE_L6	Out = one Heywood to South East (HYTS-SESS)	1236	3	0	3	0.01	C	0.01		·
F_S++HYSE_L60	Out = one Heywood to South East (HYTS-SESS)	2869	429	0	429	1.49	C	1.49	429	429
F_S+LREG_0070	SA Lower Regulation Requirement greater than 70	1	1	0	1	0	C	0	0	1
F_S+MG_R5	Raise 5 min Service Requirement for SA	2	2	0	2	0.01	C	0.01	0	2
F_S+MG_R6	Raise 6 sec Service Requirement for SA	2	2	0	2	0.01	C	0.01	0	2
F_S+MG_R60	Raise 60 sec Service Requirement for SA	2	2	0	2	0.01	C	0.01	0	2
F_S+TL_L5_OD	Lower 5 min Service Requirement for SA Network	2	0	0	0	0	C	0	0	0
F_S+TL_L6_OD	Lower 6 sec Service Requirement for SA Network	2	0	0	0	0	C	0	0	0
F_S+TL_L60_OD	Lower 60 sec Service Requirement for SA	2	0	0	0	0	C	0	0	0
F_STHN++ARTW_R5	Out = Armidale to Tamworth (85 or 86) line,	13	0	0	0	0	C	0	0	0
F_STHN++LDTW_L60	Out = Liddell to Tamworth (84) line, Southern	17	0	0	0	0	C	0	0	0
N::V_DDMS	Out=Dederang to Murray (67 or 68) line, NSW to	3	0	0	0	0	C	0	0	0
N^V_BUDP_2	Out = Buronga to Darlington Point 220 kV line,	47	42	0	42	0.15	C	0.15	42	42
N^V_EPMB_2	Out = Eildon to Mt Beauty 220kV line, avoid	5	0	0	0	0	C	0	0	0
N^V_NIL_2	Out = Nil, avoid voltage collapse for loss of a	636	34	0	34	0.12	C	0.12	0	34
N^^V_NIL_2	Outage = Nil, limit Vic interconnectors and Snowy	1	0	0	0	0	C	0	0	0
N>>N_UTYS_AH	Out = Upper Tumut -Yass(2), avoid Upper Tumut	120	0	0	0	0	C	0	0	0
N>>N-NIL_36	Out = Nil, avoid Wagga to Jindera(62) O/L on Nil	576	0	0	0	0	(	0	0	0
N>>N-NIL_996_IN	Out = Nil, avoid Wagga to ANM(996) O/L on	581	3	0	3	0.01	(	0.01	0	3
N>>N-NIL_DPTX	Out=Nil, avoid Darlington Point Tx3 or Tx4 O/L on	577	0	0	0	0	(	0	0	0
N>>N-NIL_H051	Out = Nil, avoid Lower Tumut to Wagga(051) O/L	576	0	0	0	0	(	0	0	0
N>>N-NIL_H060	Out = Nil, avoid Wodonga to Jindera(060) O/L on	576	0	0	0	0	1		0	0
	. ,									
N>>N-NIL_HF N>>N-NIL_HF N>>N-NIL_HI_15M	Out = Nil, avoid Upper Tumut to Lower Tumut(64)  Out = Nil, avoid Upper Tumut to Canberra (15	576 576	0	0	0	0	C	0	0	0

N>>N-NIL HL	Out = Nil, avoid Lower Tumut to Upper Tumut(64)	576	0	0	0	٥	0	ا ا	٥	0
N>>N-NIL_HM	Out = Nil, avoid Lower Turnut to Opper Turnut(64)  Out = Nil, avoid Upper Turnut to Lower Turnut(64)	576 576	0	0	0	0	0	0	0	0
N>>N-NIL_HU_15M	Out = Nil, avoid Opper Turnut to Canberra (15	576 576	0	0	0	0	0	0	0	0
N>>V-NIL_HO_15W	, 11	576	0	0	1	0	0	0	0	0
N>>V-NIL_HC	Out = Nil, avoid Upper Tumut to Murray(65) O/L on	577 576	1	0	<u> </u>	0	0	0	0	1
	Out = Nil, avoid Lower Tumut to Murray(66) O/L on		0	0	0	0	0	0	0	0
N>>V-NIL_HJ	Out = Nil, avoid Upper Tumut to Murray(65) O/L on	579	1	0	1	0	0	0	0	1
N>>V-NIL_HK	Out = Nil, avoid Lower Tumut to Murray(66) O/L on	576	0	ď	0	0	0	0	0	0
NC_S_AGLHAL	Non Conformance Constraint for AGL Hallet	4	0	0	0	0	0	0	0	0
NC_S_LKBONNY3	Non Conformance Constraint for Lake Bonney 3	1	0	0	0	0	0	0	0	0
NC_S_NPS1	Non Conformance Constraint for Northern NPS1	1	0	0	0	0	0	0	0	0
NC_S_NPS2	Non Conformance Constraint for Northern NPS2	4	0	0	0	0	0	0	0	0
NC_S_OSB-AG	Non Conformance Constraint for Osborne Power	33	0	0	0	0	0	0	0	0
NC_S_PLAYB-AG	Non Conformance Constraint for Playford Power	18	0	0	0	0	0	0	0	0
NC_S_PPCCGT	Non Conformance Constraint for Pelican Point	1	0	0	0	0	0	0	0	0
NC_S_TORRA2	Non Conformance Constraint for Torrens A2	3	0	0	0	0	0	0	0	0
NC_S_TORRA3	Non Conformance Constraint for Torrens A3	1	0	0	0	0	0	0	0	0
NC_S_TORRB1	Non Conformance Constraint for Torrens B1	1	0	0	0	0	0	0	0	0
NC_S_TORRB2	Non Conformance Constraint for Torrens B2	3	0	0	0	0	0	0	0	0
NC_S_TORRB4	Non Conformance Constraint for Torrens B4	1	0	0	0	0	0	0	0	0
NRM_SA1_VIC1	Negative Residue Management constraint for SA	576	0	0	0	0	0	0	0	0
NRM_VIC1_SA1	Negative Residue Management constraint for VIC	576	0	0	0	0	0	0	0	0
NSA_S_POR01_40	Port Lincoln >= 40 MW for Network Support	4	0	0	0	0	0	0	0	0
NSA_S_POR01+POR03_10	Port Lincoln >= 10 MW for Network Support	1	0	0	0	0	0	0	0	0
Q:N_NIL_LDNC_B	Outage = Nil, Qld to NSW on QNI Transient	576	0	0	0	0	0	0	0	0
S::PPT233	Pelican Point on a single contingency - limit to <=	25	0	0	0	0	0	0	0	0
S::V_SA_PSS_1	Out= Nil; SA to Vic Oscillatory stability limit based	576	0	0	0	0	0	0	0	0
S::V_SA_PSS_2	Out= Nil; Maintain maximum transfer limit on SA-	576	0	0	0	0	0	0	0	0
S:PPT273	Pelican Point on a single contingency - limit to <=	61	61	0	61	0.21	0	0.21	61	61
S:V_420_OSC_AUTO	Upper transfer limit of 420 MW on SA-VIC and	288	0	0	0	0	0	0	0	0
S:V_580	Maintain maximum transfer limit of 580 MW on SA-	631	26	0	26	0.09	0	0.09	0	26
S:V_SA_PSS	Out= Nil; SA to Vic Oscillatory stability limit based	576	0	0	0	0	0	0	0	0
S^CMWF_30	Out = Brinkworth - Redhill 132 kV line (Redhill -	289	289	0	289	1	0	1	0	289
S^NIL_PL_MAX	Out = Nil, Maximum generation at Port Lincoln	597	21	0	21	0.07	0	0.07	0	21
S^SNWWF_60	Out = Brinkworth - Redhill 132 kV line (Redhill -	262	262	262	0	0.91	0.91	0	0	262
S_CMWF_0	Discretionary upper limit for Clements Gap WF	396	396	0	396	1.38	0	1.38	396	396
S DCBUS DC2	Outage of Dry Creek 66kV bus section,	288	0	0	0	0	0	0	0	0
S_HALWF_0	Discretionary upper limit for Hallett Wind Farm	375	375	0	375	1.3	0	1.3	375	375
S LB2WF CONF	Out= Nil; Limit Lake Bonney 2 & 3 generation	642	66		66	0.23	0	0.23	0	66
S LB3 0	Discretionary upper limit for Lake Bonney 3	1002	999	232	767	3.47	0.81	2.66	395	999
S_PF_4_UNITS	Out = 4 Playford units. Playford PS output <=	175	175		175	0.61	0	0.61	0	175
S PLN ISL1	Out = Whyalla to Yadnarie line, Port Lincoln units	112	112		112	0.39	0	0.39	112	112
S PLN ISL2	Out = Yadnarie to Port Lincoln line, Port Lincoln	257	257	0	257	0.89	0	0.89	257	257
S PLN ISL31	Out = Whyalla to Yadnarie line, Port Lincoln unit	97	97	0	97	0.34	0	0.34	97	97
S PLN ISL32	Out = Yadnarie to Port Lincoln line, Port Lincoln	241	241	0	241	0.84	0	0.84	121	241
S>>V BGPA RBTU N-2 1	Out= Bungama - Para 275 kV line, avoid O/L	11	10	0	10	0.03	0	0.03	10	
S>>V CGTB TUTB MOTB	Out= Cherry Gardens -Tailem Bend 275 line, avoid	256	53		0	0.18	0.18		0	53
S>>V DB RBTU-2 RBTX1	Out= Davenport - Brinkworth line; avoid O/L	163	107	0	107	0.37	0	0.37	107	107
S>>V_KHKN_SETX_SETX	Out = Keith - Kincraig 132 kV line, avoid O/L the	61	61	61	0	0.21	0.21	0	0	61
S>>V_KHSG_SETX_SETX	Out = Keith - Kincraig 132 kV line, avoid O/L the	4	4	4	0	0.01	0.01	0	0	4
S>>V_KNPW_SETX_SETX	Out= Kincraig - Penola West 132 kV line, avoid	25	20	20	n	0.07	0.07	n n	0	20
S>>V_NIL_CGTX_ACMP3	Out= Nil, avoid O/L Angas Creek to Mannum 3 (1)	576	<u>20</u>	0	0	0.07	0.07		0	<u>2</u> 0
S>>V_NIL_CGTX_MP2MA	Out= Nil, avoid O/L Mannum 2 to Mannum (1) on	576 576	0	0	0	0	0	0	0	0
S>>V_NIL_CGTX_IVIF2IVIA	Out= Nil, avoid O/L Para 132 to Milbrook 132 (1)	576 576	0	0	0	0	0	0	0	0
S>>V_NIL_CGTX_FAAC	Out= Nil, avoid O/L Para 132 to Milibrook 132 (1)  Out= Nil, avoid O/L Snowtown 132 to Bungama	576 576	0	0	0	٥	0		0	0
S>>V_NIL_DVBG_STBG S>>V NIL KHTB1 KHTB2	Out = Nil, avoid O/L Tailumbend-Keith #2 132kV	288	0	0	0	0	0	0	0	0
S>>V_NIL_KHTB1_KHTB1	Out= Nil, avoid O/L Tailumbend-Keith #2 132kV  Out= Nil, avoid O/L Tailembend-Keith #1 132kV on	289	1	0	1	0	0	0	0	1
S>>V_NIL_KHTB2_KHTB1	Out = Nil; Avoid O/L Hummocks to Waterloo 132	600	22		22	0.08	0	0.08	0	22
S>>V_NIL_NIL_HOWT	Out= Nil, avoid O/L Harrimocks to Waterloo 132  Out= Nil, avoid O/L Keith to Snuggery 132 kV line	576	0	0	22	0.08	0	0.06	0	22
USS V_INIL_INIL_NUSUU	Tout= IVII, avoid O/L Neith to Shuggery 132 KV line	5/6	0	U	U	U	0	ı U	0	U

S>>V_NIL_NIL_MNWT	Out= Nil, avoid O/L Mintaro to Waterloo (1)	576	0	ام	0	٥	0	1 0		0
	Out= Nil, avoid O/L Miritaro to Waterioo (1) Out= Nil, avoid O/L Morgan Whyalla 4 to	576 576	0	0	0	0	0		0	0
	Out= Nil, avoid O/L Morgan Whyalia 4 to Out= Nil, avoid O/L Keith - Snuggery 132 kV line	576 576	0	0	0	0	0		0	0
S>>V_NIL_PWSE_KH3G S>>V NIL_RBTX_MW4RB	, 00 ,	576 576	0	0	0	0	0		0	0
S>>V_NIL_RBTX_MW4RB S>>V NIL RBTXW RBTX1	Out= Nil, avoid O/L Morgan Whyalla 4 to		0	0	0	0.00	0	0.00	0	0
	Out=Nil: limit SA to Vic on Murraylink and SA	66	9	0	9	0.03	0	0.03		9
	Out=Nil: limit SA to Vic on Murraylink and SA	1088	205	0	205	0.71	0	0.71		205
	Out=Nil: limit SA to Vic on Murraylink and SA	580	4407	0	4407	0.01	0	0.01		4
S>>V_NIL_SETX_SETX	Out= Nil, avoid overloading a South East 275/132	5902	4187	0	4187	14.54	0	14.54	<u> </u>	4187
S>>V_NIL_TBSE_KHSG	Out= Nil, avoid O/L Keith - Snuggery 132 kV line	576	0	0	0	0	0	9	0	0
	Out= Nil, avoid O/L Waterloo East to Morgan	577	1	0	1	0	0	(	0	1
S>>V_RBTU_N-2_RBTX1	Out= Nil; avoid O/L Robertstown transformer #1	45	11	0	11	0.04	0	0.04	0	11
	Out= One Robertstown 275/132kV transformer	1	1	0	1	0	0	C	) 1	1
S>>V_SETB_N-2_TBKH2	Prior outage= Nil; avoid O/L Keith to Tailem Bend	18	0	0	0	0	0	C	0	0
S>>V_SETB_SETB_TBKH1	Out= one South East to Tailem Bend 275kV line,	2	2	2	0	0.01	0.01		0	2
	Out = South East one transformer; Prevent	5	4	4	0	0.01	0.01	C	0	4
S>>V_TBTU_N-2_MOTB	Prior Outage= Nil; Avoid O/L Mobilong - Tailem	1	0	0	0	0	0	C	0	0
S>>V_TU_W_BUS_TUTB_3	Out= Tungkillo 275kV west bus (i.e.	203	0	0	0	0	0	C	0	0
	Out= Tungkillo 275kV west bus (i.e.	203	0	0	0	0	0	C	0	0
	Out= Tungkillo 275kV west bus (i.e.	203	0	0	0	0	0	C	0	0
	Out = Bungama 132 kV circuit breaker CB6243; to	92	92	0	92	0.32	0	0.32	92	92
S>BRDV_BRTW_MNWT	Out= Brinkworth - Davenport 275 kV line, avoid	288	0	0	0	0	0	C	0	0
S>MYTX2_MYTX1	Out = Mayura 132/33 kV transformer #2 with the	49	49	0	49	0.17	0	0.17	49	49
S>NIL_BGPA_BRTW	Out= Nil, avoid O/L Brinkworth 275 to Templers	576	0	0	0	0	0	C	0	0
S>NIL_BRTW_MNWT	Out= Nil, avoid O/L Mintaro to Waterloo (1) on trip	576	0	0	0	0	0	C	0	0
S>NIL_CGTB_TUTB	Out= Nil, avoid O/L Tungkillo to Tailem Bend 275	607	17	0	17	0.06	0	0.06	0	17
S>NIL_DVBG_BRTW	Out= Nil, avoid O/L Brinkworth 275 to Templers	576	0	0	0	0	0	C	0	0
S>NIL_HUWT_STBG	Out = Nil; Limit Snowtown WF generation to avoid	659	83	0	83	0.29	0	0.29	0	83
S>NIL_NIL_MYSG-T	Out = NIL; Limit LB2 and LB3 generation to avoid	730	130	0	130	0.45	0	0.45	0	130
S>NIL_NIL_STST-T	Out = Nil; Limit Snowtown WF generation to avoid	576	0	0	0	0	0	C	0	0
S>NIL_NOTI_NOTI	Out = NIL; Limit generation to avoid OL Torrens	586	9	0	9	0.03	0	0.03	3 0	9
S>NIL_PL_GENMAX	Out = Nil, Maximum generation at Port Lincoln	576	0	0	0	0	0	C	0	0
	Out = Nil, Maximum generation at Port Lincoln	576	0	0	0	0	0	C	0	0
S>NIL_TBSE_TBKH1	Out= Nil, avoid O/L Tailem Bend 132 to Keith 132	582	1	0	1	0	0	C	0	1
S>S_6162_MTSE_SGKH	Out = South East CB6162; avoid O/L of Snuggery-	16	16	16	0	0.06	0.06	(	0	16
S>S SNTX3A	Out=Snuggery #3 132/33 kV transformer, prevent	39	39		39	0.14	0	0.14	39	39
S>S_SNTX3B	Out=Snuggery #3 132/33 kV transformer, prevent	13	13		13		0	0.05		
S>SE132CB SETX SGKH	Out= South East 132 kV CB6160 or CB6162,	265	265		265	0.92	0	0.92		
S>SETX SETX SGKH	Out= One South East 275/132kV transformer,	719	719		18	2.5	2.43	<b>.</b>		
	Out= North West Bend_CB6021 and CB6225; limit	436	91		0	0.32	0.32		0	91
	Out= North West Bend CB6021 and CB6225; limit	156	0	0	0	0	0.02	(	0	0
S>V_CB6024+6023_TX2	Out= North West Bend CB6024 and CB6023; limit	1534	646	646	0	2.24	2.24	(	0	646
S>V NIL HYTX HYTX	Out= Nil, limit SA to Vic to avoid OL the remaining	675	19		19	0.07	0	0.07	7 0	19
S>V NIL NIL HYTX1	Out= Nil, limit SA to Vic to avoid OL Heywood	578	0	0	0	0	0	(	0	0
S>V NIL NIL HYTX2	Out= Nil, limit SA to Vic to avoid OL Heywood	576	0	0	0	0	0		0	0
S>V NIL NIL RBNW	Out = Nil, avoid overloading North West Bend to	1408	184	n	184	0.64	<u> </u>	0.64	ı o	184
S>V NWRB RBMWP3	Out=NWB - Robertstown 132kV line, Limit	53	16		0	0.06	0.06	-	0	16
S>V_NWRB2_RBNW1	Out = North West Bend to Robertstown No2 line,	184	35		0	0.12	0.12	-	) 0	35
S>V X 6021+6022 TX2	Out= North West Bend CB6021 & CB6022; limit	2204	433		0	1.5	1.5			433
S>VML NWCB6023 TX2	Out= North West Bend_CB6023; limit SA to	40	36		36	0.13	1.5	0.13	36	
S>VML_NWCB6024+25	Out= North West Bend CBs 6024 and 6025; limit	159	45		0	0.16	0.16		) 0	45
	Out= North West Bend_CBs 0024 and 0025, limit Out= North West Bend_CB6033; limit SA to	2484	413		0	1.43	1.43	-	0	413
	Out= North West Bend_CB6235; limit SA to	2404	413	413	0	1.43	1.43		) 0	413
S>VMLMHNW2	Out=MNSH_NW # 2, SA-V on ML, avoid overload	145	27	27	0	0.09	0.09	1		27
S>X BRMN DRTP 1	Out=MINSH_NVV # 2, SA-V on ML, avoid overload Out= Brinkworth to Clare North to Mintaro 132kV				20	0.09	0.09	-	20	
		32	32	0	32		0	0.11	+	32
SA_HYSE1	SA / Eastern separation between Heywood and	2	2	0	2	0.01	0	0.01		2
S-LB2_0	Discretionary upper limit for Lake Bonney 2	17	17	0	17	0.06	0	0.06	15	17
S-SG_0	Snuggery 132KV Turbine Bus out of service.	<u>'</u>	1	0	1	0	0	(	η <u>1</u>	1 1
S-SNWWF_0	Discretionary upper limit for Snowtown WF	470	470	78	392	1.63	0.27	1.36	392	470

SV_200	SA to Victoria on VicSA upper transfer limit of 200	92	0	٥	0	٥	0	l ol	٥	0
SV_250	SA to Victoria on Heywood upper transfer limit of	274	0	0	0	0	0	0	0	0
SV_300	SA to Victoria on VicSA upper transfer limit of 300	22	0	0	0	0	0	0	0	0
SVML 000	SA to Victoria on VicoA upper transfer limit of 300	3431	435	v	115	1.51	0.74	0.4	115	435
SVML_220	SA to Vic on ML upper transfer limit of 0 MW	576	433	214	113	1.51	0.74	0.4	113	433
V::N BAHOQD R	Outage = Ballarat to Horsham 220kV line, limit Vic	370	0	0	0	0	0	0	0	0
VN_BAHOQD_R V::N_BAHOQE_R	Out = Ballarat to Horsham 220kV line, avoid	3	0	0	0	0	0	0	0	0
	Outage = Ballarat to Horsham 220kV line, avoid	1	0	0	0	0	0	0	0	0
V::N_BAHOQE_R	Out = Ballarat to Horsham 220kV line, limit vic	20	0	0	0	0	0	0	0	0
V::N_BAHOQF_R	,	ა იი	0	0	0	0	0	0	0	0
V::N_BAHOQF_R	Outage = Ballarat to Horsham 220kV line, limit Vic	30	0	0	0	0	0	0	0	0
V::N_BAHOVD_R	Outage = Ballarat to Horsham 220kV line, limit Vic	16	0	0	0	0	0	0	0	0
V::N_DDMSQB_R	Out = Dederang to Murray 330kV line, avoid	36	0	0	0	0	0	0	0	0
V::N_DDMSQC_R	Out = Dederang to Murray 330kV line, avoid	6	0	0	0	0	0	0	0	0
V::N_DDMSQD_R	Out = Dederang to Murray 330kV line, avoid	14	0	0	0	0	0	0	0	0
V::N_DDMSQE_R	Out = Dederang to Murray 330kV line, avoid	42	1	0	1	0	0	0	1	1
V::N_DDMSQE_R	Outage = Dederang to Murray 330kV line, limit Vic	7	0	0	0	0	0	0	0	0
V::N_DDMSQF_R	Out = Dederang to Murray 330kV line, avoid	35	0	0	0	0	0	0	0	0
V::N_DDMSVB_R	Out = Dederang to Murray 330kV line, avoid	2	0	0	0	0	0	0	0	0
V::N_DDMSVD_R	Out = Dederang to Murray 330kV line, avoid	19	0	0	0	0	0	0	0	0
V::N_DDMSVE_R	Outage = Dederang to Murray 330kV line, limit Vic	1	0	0	0	0	0	0	0	0
V::N_DDMSVF_R	Outage = Dederang to Murray 330kV line, limit Vic	2	0	0	0	0	0	0	0	0
V::N_DDSM2	Out = Dederang to South Morang 330kV line,	127	56	0	56	0.19	0	0.19	56	56
V::N_EPMBQD_R	Out = Eildon to Mt Beauty 220kV line, avoid	1	0	0	0	0	0	0	0	0
V::N_EPMBQE_R	Out = Eildon to Mt Beauty 220kV line, avoid	1	0	0	0	0	0	0	0	0
V::N_EPMBQF_R	Out = Eildon to Mt Beauty 220kV line, avoid	1	0	0	0	0	0	0	0	0
V::N_EPTTQA_R	Out = Eildon to Thomastown 220kV line, avoid	6	0	0	0	0	0	0	0	0
V::N_EPTTQB_R	Out = Eildon to Thomastown 220kV line, avoid	59	1	0	1	0	0	0	1	1
V::N_EPTTQC_R	Out = Eildon to Thomastown 220kV line, avoid	34	0	0	0	0	0	0	0	0
V::N_EPTTQD_R	Out = Eildon to Thomastown 220kV line, avoid	1	0	0	0	0	0	0	0	0
V::N_EPTTQE_R	Out = Eildon to Thomastown 220kV line, avoid	24	0	0	0	0	0	0	0	0
V::N_EPTTQF_R	Out = Eildon to Thomastown 220kV line, avoid	24	0	0	0	0	0	0	0	0
V::N_EPTTVB_R	Out = Eildon to Thomastown 220kV line, avoid	4	0	0	0	0	0	0	0	0
V::N_EPTTVE_R	Out = Eildon to Thomastown 220kV line, avoid	6	0	0	0	0	0	0	0	0
V::N_HWSMQA_R	Out = Hazelwood to South Morang or Hazelwood	1	0	0	0	0	0	0	0	0
V::N_HWSMQD_R	Out = Hazelwood to South Morang 500 kV line,	12	4	0	4	0.01	0	0.01	4	4
V::N_HWSMQD_R	Out = Hazelwood to South Morang or Hazelwood	48	0	0	0	0	0	0	0	0
V::N HWSMQE R	Out = Hazelwood to South Morang 500 kV line,	7	1	0	1	0	0	0	1	1
V::N HWSMQE R	Out = Hazelwood to South Morang or Hazelwood	19	1	0	1	0	0	0	1	1
V::N HWSMQF R	Out = Hazelwood to South Morang 500 kV line,	16	5	0	5	0.02	0	0.02	5	5
V::N HWSMVA R	Out = Hazelwood to South Morang or Hazelwood	221	88	0	88	0.31	0	0.31	88	88
V::N HWSMVB R	Out = Hazelwood to South Morang 500 kV line,	1	1	0	1	0	0	0	1	1
V::N HWSMVB R	Out = Hazelwood to South Morang or Hazelwood	81	31	0	31	0.11	0	0.11	31	31
V::N_HWSMVC_R	Out = Hazelwood to South Morang or Hazelwood	4	3	0	3	0.01	0	0.01	3	3
V::N HWSMVD R	Out = Hazelwood to South Morang 500 kV line,	9	0	0	0	0	0	0	0	0
V::N HWSMVD R	Out = Hazelwood to South Morang or Hazelwood	38	0	n	0	n	0	0	0	<u> </u>
V::N HWSMVE R	Out = Hazelwood to South Morang 500 kV line.	55	36	0	36	0.13	0	0.13	36	36
V::N_HWSMVE_R	Out = Hazelwood to South Morang or Hazelwood	50	15		15	0.05	<u> </u>	0.05	15	15
V::N HWSMVF R	Out = Hazelwood to South Morang 500 kV line,	5	<u></u>	n	0	0.50	<u> </u>	0	0	<u> </u>
V::N_HWSMVF_R	Out = Hazelwood to South Morang or Hazelwood	9	2	0	2	0.01	0	0.01	2	2
V::N_HYMLQA_R	Out = Heywood to Moorabool 500kV line, avoid	99	0	0	n	0.01	0	0.01	0	<u> </u>
V::N_HYMLQA_R	Out = one 500 kV line between Heywood and	98	<u>0</u>	0	0	0	0	i i	0	
V::N HYMLQA_R	Out = Heywood to Moorabool 500kV line, avoid	99	0	0	0	0	0		0	
V::N_HYMLQB_R	Out = one 500 kV line between Heywood and	92	0	0	0	0	0		0	
V::N HYMLQC R	Out = Heywood to Moorabool 500kV line, avoid	99	0	0	0	0	0		0	
V::N_HYMLQC_R V::N_HYMLQC_R	Out = one 500 kV line between Heywood and	92	0	0	0	0	0	0	0	
V::N_HYMLQC_R V::N_HYMLQD_R	· · · · · · · · · · · · · · · · · · ·	92	0	0	0	0	0	<u> </u>	0	
	Out = Heywood to Moorabool 500kV line, avoid		0	0	0	0	0	<u> </u>	0	0
V::N_HYMLQD_R	Out = one 500 kV line between Heywood and	92	0	0	0	0	0	<u> </u>	0	
V::N_HYMLQE_R	Out = Heywood to Moorabool 500kV line, avoid	99	0	0	0	0	0	l Ol	0	(

	<u> </u>								_	_
V::N_HYMLQE_R	Out = one 500 kV line between Heywood and	92		0	0	0	0	0	0	0
V::N_HYMLQF_R	Out = Heywood to Moorabool 500kV line, avoid	99		0	0	0	0	0	0	0
V::N_HYMLQF_R	Out = one 500 kV line between Heywood and	92	0	0	0	0	0	0	0	0
V::N_HYMLVA_R	Out = Heywood to Moorabool 500kV line, avoid	101	0	0	0	0	0	0	0	0
V::N_HYMLVA_R	Out = one 500 kV line between Heywood and	95	0	0	0	0	0	0	0	0
V::N_HYMLVB_R	Out = Heywood to Moorabool 500kV line, avoid	100	0	0	0	0	0	0	0	0
V::N HYMLVB R	Out = one 500 kV line between Heywood and	113	0	0	0	0	0	0	0	0
V::N HYMLVC R	Out = Heywood to Moorabool 500kV line, avoid	99		0	0	0	0	0	0	0
V::N HYMLVC R	Out = one 500 kV line between Heywood and	92		0	0	0	0	0	0	0
V::N HYMLVD R	Out = Heywood to Moorabool 500kV line, avoid	109	0	0	0	0	0	0	0	0
V::N HYMLVD R	Out = one 500 kV line between Heywood and	92	0	0	0	0	0	0	0	0
V::N_HYMLVE_R	Out = Heywood to Moorabool 500kV line, avoid	103	0	0	0	0	0	0	0	0
V::N HYMLVE R	Out = one 500 kV line between Heywood and	92	0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0
V::N_HYMLVF_R	Out = Heywood to Moorabool 500kV line, avoid	99			0	0	0	0	0	0
V::N_HYMLVF_R	Out = one 500 kV line between Heywood and	92	0	0	0	0	0	0	0	0
V::N_HYSEQA_R	Out = Heywood to South East 275kV line, avoid	101	0	0	0	0	0	0	0	0
V::N_HYSEQB_R	Out = Heywood to South East 275kV line, avoid	197	19		19	0.07	0	0.07	19	19
V::N_HYSEQC_R	Out = Heywood to South East 275kV line, avoid	92		0	0	0	0	0	0	0
V::N_HYSEQD_R	Out = Heywood to South East 275kV line, avoid	175		0	4	0.01	0	0.01	4	4
V::N_HYSEQE_R	Out = Heywood to South East 275kV line, avoid	313	25	0	25	0.09	0	0.09	25	25
V::N_HYSEQE_R	Outage = Heywood to South East 275kV line, limit	2	0	0	0	0	0	0	0	0
V::N_HYSEQF_R	Out = Heywood to South East 275kV line, avoid	92	0	0	0	0	0	0	0	0
V::N_HYSEVA_R	Out = Heywood to South East 275kV line, avoid	95	0	0	0	0	0	0	0	0
V::N HYSEVB R	Out = Heywood to South East 275kV line, avoid	155	11	11	0	0.04	0.04	0	0	11
V::N HYSEVC R	Out = Heywood to South East 275kV line, avoid	92	0	0	0	0	0	0	0	0
V::N HYSEVD R	Out = Heywood to South East 275kV line, avoid	108	0	0	0	0	0	0	0	0
V::N HYSEVE R	Out = Heywood to South East 275kV line, avoid	93	0	0	0	0	0	0	0	0
V::N_HYSEVF_R	Out = Heywood to South East 275kV line, avoid	92		0	0	0	0	0	0	0
V::N JNWOQB R	Out = Jindera to Wodonga 330kV line, avoid	92	0	0	0	0	0	0	0	0
V::N_JNWOQC_R	Out = Jindera to Wodonga 330kV line, avoid	12	0	0	0	0	0	0	0	0
V::N_JNWOQE_R	Out = Jindera to Wodonga 330kV line, avoid  Out = Jindera to Wodonga 330kV line, avoid	12	0	0	0	0	0	0	0	0
V::N JNWOVB R	<u> </u>	<u> </u>	0	0	0	0	0	0	0	0
	Out = Jindera to Wodonga 330kV line, avoid	3	0	, ,	0	0	0	0	0	0
V::N_JNWOVC_R	Out = Jindera to Wodonga 330kV line, avoid	16	0	0	0	0	0	0	0	0
V::N_JNWOVE_R	Out = Jindera to Wodonga 330kV line, avoid	2	0	0	0	0	0	0	0	0
V::N_LTMSQB_R	Out = Lower Tumut to Murray 330kV line, avoid	18	0	0	0	0	0	0	0	0
V::N_LTMSQC_R	Out = Lower Tumut to Murray 330kV line, avoid	2	0	0	0	0	0	0	0	0
V::N_LTMSQE_R	Out = Lower Tumut to Murray 330kV line, avoid	51	4	0	4	0.01	0	0.01	4	4
V::N_LTMSQF_R	Out = Lower Tumut to Murray 330kV line, avoid	13	0	0	0	0	0	0	0	0
V::N_LTMSVB_R	Out = Lower Tumut to Murray 330kV line, avoid	12	0	0	0	0	0	0	0	0
V::N_LTMSVC_R	Out = Lower Tumut to Murray 330kV line, avoid	5	0	0	0	0	0	0	0	0
V::N_LTMSVE_R	Out = Lower Tumut to Murray 330kV line, avoid	2	0	0	0	0	0	0	0	0
V::N_LTMSVF_R	Out = Lower Tumut to Murray 330kV line, avoid	8	0	0	0	0	0	0	0	0
V::N_MSUTQB_R	Out = Upper Tumut to Murray 330kV line, avoid	2	0	0	0	0	0	0	0	0
V::N MSUTQC R	Out = Upper Tumut to Murray 330kV line, avoid	73	0	0	0	0	0	0	0	0
V::N MSUTQD R	Out = Upper Tumut to Murray 330kV line, avoid	4	2	0	2	0.01	0	0.01	2	2
V::N MSUTQE R	Out = Upper Tumut to Murray 330kV line, avoid	36	2	n	2	0.01	0	0.01	2	2
V::N_MSUTQF_R	Out = Upper Turnut to Murray 330kV line, avoid  Out = Upper Turnut to Murray 330kV line, avoid	32		0	<u> </u>	0.01	0	0.01	<u> </u>	<u></u>
V::N_MSUTVB_R	Out = Upper Turnut to Murray 330kV line, avoid  Out = Upper Turnut to Murray 330kV line, avoid	1	0	0	0	0	0	0	0	0
VN_MSUTVB_R V::N_MSUTVC_R	Out = Upper Turnut to Murray 330kV line, avoid  Out = Upper Turnut to Murray 330kV line, avoid	63	0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0
V::N_MSUTVE_R	Out = Upper Tumut to Murray 330kV line, avoid	36	0	0	0	0	0	U O	0	0
V::N_MSUTVF_R	Out = Upper Tumut to Murray 330kV line, avoid	3	0	0	0	0	0	0	0	0
V::N_NIL_Q1	Out = NIL, prevent transient instability for fault and	288	0	0	0	0	0	0	0	0
V::N_NIL_Q2	Out = NIL, prevent transient instability for fault and	288	0	0	0	0	0	0	0	0
V::N_NIL_Q3	Out = NIL, prevent transient instability for fault and	288	0	0	0	0	0	0	0	0
V::N_NIL_Q4	Out = NIL, prevent transient instability for fault and	288	0	0	0	0	0	0	0	0
V::N_NIL_S1	Out = NIL, prevent transient instability for fault and	288	0	0	0	0	0	0	0	0
V::N_NIL_S2	Out = NIL, prevent transient instability for fault and	288	0	0	0	0	0	0	0	0
V::N_NIL_S3	Out = NIL, prevent transient instability for fault and	288	0	0	0	0	0	0	0	0
				•		-		- <u>-                                  </u>		

V::N_NIL_S4	Out = NIL, prevent transient instability for fault and	288	0	0	0	Ι ο	0	1 0	ا ا	0
V::N NIL SH	VIC to NSW Transient Limit for loss of both	99	0	0	0	0	0	0	0	0
V::N NIL SL	VIC to NSW Transient Limit for loss of both	99	0	0	0	0	0	0	0	0
V::N NIL V1	Out = NIL, prevent transient instability for fault and	288	0	0	0	0	0	0	0	0
		288	0	0	0	0	0	0	0	0
V::N_NIL_V2	Out = NIL, prevent transient instability for fault and		0	0	0	0	0	0	0	0
V::N_NIL_V3	Out = NIL, prevent transient instability for fault and	288	0	0	0	0	0	0	0	0
V::N_NIL_V4	Out = NIL, prevent transient instability for fault and	288	0	0	0	0	0	0	0	0
V::N_NILQA_BL_R	Out = Nil, avoid transient instability for fault and trip	288	0	0	0	0	0	0	0	0
V::N_NILQB_BL_R	Out = Nil, avoid transient instability for fault and trip	457	7	0	7	0.02	0	0.02		7
V::N_NILQC_BL_R	Out = Nil, avoid transient instability for fault and trip	706	75	0	75	0.26	0	0.26	0	75
V::N_NILQC_BL_R	Outage = Nil, Basslink import from Tas, limit Vic	5	0	0	0	0	0	0	0	0
V::N_NILQD_BL_R	Out = Nil, avoid transient instability for fault and trip	614	13	0	13	0.05	0	0.05	0	13
V::N_NILQD_BL_R	Outage = Nil, Basslink export to Tas, limit Vic	10	0	0	0	0	0	0	0	0
V::N_NILQD_BL_R-50	Out = NIL, avoid transient instability for fault and	8	0	0	0	0	0	0	0	0
V::N_NILQE_BL_R	Out = Nil, avoid transient instability for fault and trip	1715	118	0	118	0.41	0	0.41	0	118
V::N_NILQE_BL_R	Outage = Nil, Basslink export to Tas, limit Vic	85	0	0	0	0	0	0	0	0
V::N_NILQE_BL_R-50	Out = NIL, avoid transient instability for fault and	3	0	0	0	0	0	0	0	0
V::N_NILQF_BL_R	Out = Nil, avoid transient instability for fault and trip	895	55	0	55	0.19	0	0.19	0	55
V::N_NILQF_BL_R	Outage = Nil, Basslink export to Tas, limit Vic	85	1	0	1	0	0	0	0	1
V::N_NILVA_BL_R	Out = Nil, avoid transient instability for fault and trip	304	1	0	1	0	0	0	0	1
V::N_NILVB_BL_R	Out = Nil, avoid transient instability for fault and trip	475	13	0	13	0.05	0	0.05	0	13
V::N NILVB BL R	Outage = Nil, Basslink import from Tas, limit Vic	4	0	0	0	0	0	0	0	0
V::N NILVC BL R	Out = Nil, avoid transient instability for fault and trip	516	23	0	23	0.08	0	0.08	0	23
V::N NILVD BL R	Out = Nil, avoid transient instability for fault and trip	526	7	0	7	0.02	0	0.02	0	7
V::N NILVD BL R	Outage = Nil, Basslink export to Tas, limit Vic	30	1	0	1	0.02	0	0.02	0	1
V::N NILVD BL R-50	Out = NIL, avoid transient instability for fault and	1		0		0	0	0	0	0
V::N_NILVE_BL_R	Out = Nil, avoid transient instability for fault and trip	949	21	0	21	0.07	0	0.07	0	21
V::N NILVE BL R	Outage = Nil, Basslink export to Tas, limit Vic	262	0	0	0	0.07	0	0.07	0	
V::N NILVE_BL_R-100	Out = NIL, avoid transient instability for fault and	23	0	0	0	0.03	0	0.03	0	0
V::N_NILVE_BL_R-50	Out = NIL, avoid transient instability for fault and	26	0	0	0	0.03	0	0.03	0	- 0
V::N_NILVF_BL_R	Out = NiL, avoid transient instability for fault and trip	474	9	0	9	0.03	0	0.01	0	- 4
		30	0	0	0	0.03	0	0.03	0	0
V::N_NILVF_BL_R	Outage = Nil, Basslink export to Tas, limit Vic		0	0	0	0	0	0	0	0
V::N_SMCSQF_R	Out = South Morang 330kV series capacitor, avoid	14	0	0	0	0	0	0	0	0
V::N_SMCSVF_R	Out = South Morang 330kV series capacitor, avoid	19	0	0	0	0	0	0	0	0
V::N_X_EPMBQA_R	Out = Both Eildon to Mt Beauty 220kV lines, avoid	1	0	0	0	0	0	0	0	0
V::N_X_EPMBQB_R	Out = Both Eildon to Mt Beauty 220kV lines, avoid	19	0	0	0	0	0	0	0	0
V::N_X_EPMBQC_R	Out = Both Eildon to Mt Beauty 220kV lines, avoid	1	0	0	0	0	0	0	0	0
V::N_X_EPMBQE_R	Out = Both Eildon to Mt Beauty 220kV lines, avoid	1	0	0	0	0	0	0	0	0
V::N_X_EPMBVB_R	Out = Both Eildon to Mt Beauty 220kV lines, avoid	5	0	0	0	0	0	0	0	0
V::N_X_EPMBVC_R	Out = Both Eildon to Mt Beauty 220kV lines, avoid	1	0	0	0	0	0	0	0	0
V::S_HYSE	Out = One South East - Heywood 275 kV line; Vic	96	0	0	0	0	0	0	0	0
V::S_NIL_MAXG_AUTO	Out = Nil; Vic to SA Transient Stability limit for loss	628	1	0	1	0	0	0	0	1
V::S_NIL_MAXG_SECP	Out = Nil; Vic to SA transient stability limit (South	576	0	0	0	0	0	0	0	0
V::S_SETB_SETB	Out= South East - Tailem Bend 275 kV line; Vic to	1028	335	335	0	1.16	1.16		0	335
V::V_DDSM	Out = Dederang to South Morang 330kV line,	61	15	0	15		0	0.05	15	15
V::V_EPTT	Out = Eildon to Thomastown 220kV line, avoid	7	4	0	4	0.01	0	0.01	4	4
V:S_SA_PSS	Out= Nil; Vic to SA Oscillatory stability limit based	576	0	0	0	0	0	0	0	0
V^^S_ACMA_MAXG	Out = Angas Creek-Mannum 132kV line; Vic to SA	45	0	0	0	0	0	0	0	0
V^^S_ACPA_MAXG	Out = Angas Creek - Para 132kV line; Vic to SA	1	0	0	0	0	0	0	0	0
V^^S_BNMT_MAXG	Out = Blanche - Mount Gambier 132 kV line; Vic to	64	0	0	0	0	0	0	0	0
V^^S_BNSG_MAXG	Out= Blanche - Snuggery 132 kV line; Vic to SA	4	0	0	0	0	0	0	0	0
V^^S_KHKN_MAXG	Out= Keith - Kincraig 132 kV line; Vic to SA Long	71	23	23	0	0.08	0.08	0	0	23
V^S KNPW MAXG	Out= Kincraig - Penola West 132 kV line 132 kV	372	7	7	0	0.02	0.02		0	7
V^\S MBMO MAXG	Out= Any one of the line segments Mt Baker-	175	3	3	0	0.01	0.01		0	3
V^S MTSE MAXG	Out = Mount Gambier - South East 132 kV line;	14	0	0	0	0	0.01	0	0	0
V^S NIL MAXG AUTO	Out = Nil; Vic to SA Long Term Voltage Stability	3446	239	n	239	0.83	n	0.83		239
V^S NIL MAXG SECP	Out = Nil; Vic to SA Long Term Voltage Stability  Out = Nil; Vic to SA Long Term Voltage Stability	581	200	0	200	0.00	0	0.00	0	200
V^S NIL MAXG-30MW	System normal limit -30 MW offset; Vic to SA Long	50	0	0	0	0	0	0	0	0
V O_INIL_INIAAG-30ININ	10/316111 Horman IIIIII -30 IVIVV OHSEL, VIC 10 3A LONG	30	U	L	U	ı U	U	1 0	<u> </u>	0

V^^S PACP MAXG	Out = Para capacitor bank; Vic to SA Long Term	43	6	0	6	0.02	0	0.02	6	6
V^S PAVC MAXG	Out= Para one SVC; Vic to SA Long Term Voltage	174	69		0	0.02	0.24		0	60
V^S PWSE MAXG	Out= Penola West - South East 132 kV line; Vic to	25	00	0	0	0.24	0.24	0	0	03
V^S SETX MAXG	Out = One South East 275/132 kV transformer; Vic	142	38	- v	0	0.13	0.13	0	0	38
V^S SEVC MAXG	Out= South East one SVC; Vic to SA Long Term	50	0 0	0	0	0.13	0.13	0	0	0
V^S X MSTU MBMO	Out= Mt Barker South-Tungkillo 275kV line and Mt	30	1	1	0	0.01	0.01	0	0	4
V^S_HYCP	Outage = Nil, limit Vic to SA to avoid voltage	576	0	0	0	0.01	0.01	0	0	0
V^SML_NIL_3	Out = Nil, avoid voltage collapse for loss of	577	0	0	0	0	0	0	0	0
V^SML_NIL_3	Outage = Nil, limit Vic to SA on Murraylink to avoid	1	1	0	1	0	0	0	0	1
V^SML_NSWRB_2	Out = NSW Murraylink runback scheme, avoid	632	48	0	48	0.17	0	0.17	48	10
V^SML_NSWRB_2	Outage = NSW Murraylink runback scheme, limit	83	45		45	0.17	0	0.17	45	
	, , , , , , , , , , , , , , , , , , ,	100	43	0	45	0.16	0	0.16	45	45
V_HYML1_2	Out = Heywood to Moorabool No. 1 500 kV line,		1	0	1	0.01	0	0 01	<u>l</u>	1
V_HYML1_4	Out = Heywood to Moorabool No. 1 500 kV line,	103	4	0	4	0.01	0	0.01	4	4
V_HYML1_5	Out = Heywood to Moorabool No. 1 500 kV line,	99	0	0	0	0	0	0	0	0
V_HYMO2_1	Out = Heywood to Mortlake No. 2 500 kV line, limit	125	29		29	0.1	0	0.1	29	29
V_HYMO2_2	Out = Heywood to Mortlake No. 2 500 kV line, limit	92	0	0	0	0	0	0	0	0
V>>N_DDMS_2	Out = Dederang to Murray 330 kV line, avoid O/L	77	15	0	15	0.05	0	0.05	15	15
V>>N_SMHTX_1	Out = South Morang H1 or H2 330/220 kV txfmr,	128	6	0	6	0.02	0	0.02	6	6
V>>N_SMTXF2	Outage = South Morang 500/330kV (F2)	7	0	0	0	0	0	0	0	0
V>>N_SMTXF2A	Outage = South Morang 500/330kV (F2)	1	1	0	1	0	0	0	1	1
V>>N_UTYS_BH_15M	Out = Upper Tumut -Yass(2), avoid Murray to	120	0	0	0	0	0	0	0	0
V>>N-LTMS_1	Out= Lower Tumut-Murray(66), avoid Murray to	18	15	0	15	0.05	0	0.05	15	15
V>>N-LTMS_4	Out= LowerTumut-Murray(66), avoid Murray to	1	1	0	1	0	0	0	1	1
V>>N-NIL_HA	Out = Nil, avoid Murray to Upper Tumut(65) O/L on	687	37	0	37	0.13	0	0.13	0	37
V>>N-NIL_HB	Out = Nil, avoid Murray to Lower Tumut(66) O/L on	576	0	0	0	0	0	0	0	0
V>>N-NIL_HG	Out = Nil, avoid Murray to Upper Tumut(65) O/L on	591	11	0	11	0.04	0	0.04	0	11
V>>N-NIL_HH	Out = Nil, avoid Murray to Lower Tumut(66) O/L on	576	0	0	0	0	0	0	0	0
V>>S_APDHY2_1	Out = Heywood to APD No. 2 500 kV line section,	8	0	0	0	0	0	0	0	0
V>>S_APDHY2_3	Out = Heywood to APD No. 2 500 kV line section	1	1	0	1	0	0	0	1	1
V>>S_BGPA_RBTU_N-2_1	Out= Bungama - Para 275 kV line, avoid O/L	3	1	0	1	0	0	0	1	1
V>>S_BGPA_RBTU_N-2_3	Out= Bungama-Para 275kV line; avoid O/L	1	1	0	1	0	0	0	1	1
V>>S_BP_RBTU-2_WEWT	Out= Brinkworth - Templers West line; avoid O/L	4	3	0	3	0.01	0	0.01	3	3
V>>S_BP_RBTU-2_WTTP	Out= Brinkworth - Templers West line; avoid O/L	3	3	0	3	0.01	0	0.01	3	3
V>>S_CGTB_TBTU_TBMO	Out= Cherry Gardens - Tailem Bend 275 kV line,	280	79	79	0	0.27	0.27	0	0	79
V>>S_CGTB_TBTU_TBMO	Prior Outage = Cherry Gardens - Tailem Bend 275	15	0	0	0	0	0	0	0	0
V>>S_DB_RBTU-2_WEWT	Out= Davenport - Brinkworth line; avoid O/L	100	90	0	90	0.31	0	0.31	90	90
V>>S_HYML_1	Out = Heywood - Moorabool - APD 500 kV line,	1231	41	0	41	0.14	0	0.14	41	41
V>>S_HYML_1	Out = One Heywood 500/275 kV txfmr in service	239	1	0	1	0	0	0	1	1
V>>S_HYML_2	Out = Heywood - Moorabool - APD 500 kV line,	525	2	0	2	0.01	0	0.01	2	2
V>>S_HYML_2	Out = One Heywood 500/275 kV txfmr in service	302	78	0	78	0.27	0	0.27	78	78
V>>S_HYML_3	Out = One Heywood 500/275 kV txfmr in service	191	0	0	0	0	0	0	0	0
V>>S_HYML_4	Out = One Heywood 500/275 kV txfmr in service	833	203	0	203	0.7	0	0.7	203	203
V>>S_KHKN_SETB_SGKH	Out = Keith - Kincraig 132 kV line; avoid Snuggery	358	185	185	0	0.64	0.64	0	0	185
V>>S KNPW NIL SGKH	Out = Kincraig - Penola West 132 kV line; avoid	2	0	0	0	0	0	0	0	0
V>>S KNPW SETB SGKH	Out = Kincraig - Penola West 132 kV line; avoid	20	0	0	0	0	0	0	0	0
V>>S NIL DVBG DVBR	Out= Nil, avoid O/L Davenport 275 to Brinkworth	576		0	0	0	0	0	0	0
V>>S_NIL_KHTB1_KHTB2	Out = Nil. Prevent Keith - Tailem Bend #2 line OL	678	52	0	52	0.18	0	0.18	0	52
V>>S NIL KHTB2 KHTB1	Out = Nil. Prevent Keith - Tailem Bend #1 line OL	627	6	0	6	0.02	0	0.02	0	6
V>>S NIL NIL KHTB1	Out = Nil. Prevent Keith - Tailem Bend #1 line OL	576	0	0	0	0.32	0	0.02	0	0
V>>S_NIL_NIL_SGKHC	Out= Nil, Limit all other generators except LB3 to	754	67	0	67	0.23	0	0.23	0	67
V>>S NIL PWKN SGKH	Out= Nil, avoid O/L Snuggery - Keith 132 kV line	576	0	n	n	0.20	0	0.20	0	n
V>>S_NIL_SETB_KHTB	Out = Nil; Prevent Keith - Tailem Bend #1 line OL	738	45	0	45	0.16	0	0.16	0	45
V>>S_NIL_SETB_PWKN	Out = Nil; Prevent Penola West - Kincraig OL for	576		0	- <del>1</del> 5	0.10	0	0.10	0	10
V>>S NIL SETB SGKH	Out= Nil, avoid O/L Snuggery - Keith 132 kV line	576	0	0	0	0	0	0	0	0
V>>S_NIL_SGBL_SGKH	Out= Nil, avoid O/L Snuggery Fketth 132 kV line on	576		0	0	0	0	0	0	0
V>>S_RBTU_N-2_WEWT	Out= Nil; avoid O/L Struggery Keitit 132 kV line off Out= Nil; avoid O/L Waterloo East-Waterloo	63	27	0	27	0.09	0	0.09	0	27
V>>S_RBTU_N-2_WEWT V>>S_SETX_NPS_SETX	Out = One South East Transformer. Prevent	57	52		21	0.09	0.18		0	52
			32		0	0.18	0.18	0	0	52
V>>S_TU_W_BUS_TURB_1	Out= Tungkillo 275kV west bus (i.e.	203	0	0	0	<u> </u>	0	1 0	0	0

V. C TH W DUC THDD 2	Out Tungkille 275kV west has /i a	202		I 0	0	0			1 0	0
V>>S_TU_W_BUS_TURB_2	Out= Tungkillo 275kV west bus (i.e.	203	0	0	0	0	0	0	0	0
V>>S_TU_W_BUS_TUTB_6	Out= Tungkillo 275kV west bus (i.e.	203	0		0	0	0	0	0	0
V>>S_TU_W_BUS_TUTB_7	Out= Tungkillo 275kV west bus (i.e.	203	0	0	0	0	0	0	0	0
V>>S_TU_W_BUS_TUTB_8	Out= Tungkillo 275kV west bus (i.e.	203	0	0	0	0	0	0	0	0
V>>S_TX1_SGBL_SGTX4	Out= Snuggery T1 transformer , avoid O/L	4	0	0	0	0	0	0	0	0
V>>S_X_CGTB_TBKH1_3	Out= Cherry Gardens - Tailem Bend 275 kV line	169		6	0	0.02	0.02		0	6
V>>SML_BAML1_4	Out = Moorabool to Ballarat No. 1 220 kV line,	23	22	0	22	0.08	0	0.08		22
V>>SML_BESH_1	Out = Bendigo to Shepparton 220 kV line, avoid	8	7	0	7	0.02	0	0.02	7	7
V>>SML_BESH_2	Out = Bendigo to Shepparton 220 kV line, avoid	2	1	0	1	0	0	0	1	1
V>>SML_DDGN	Out = Dederang to Glenrowan No.1 or No.3 220kV	288	0	0	0	0	0	0	0	0
V>>SML_NIL_1	Out = Nil, avoid O/L Ballarat to Moorabool No.1	311	18	0	18	0.06	0	0.06	0	18
V>>SML_NIL_1	Out = Nil, avoid O/L Ballarat to Moorabool No.1	298	3	0	3	0.01	0	0.01	0	3
V>>SML_NIL_1	Out = Nil, avoid O/L Ballarat to Moorabool No.1	7	7	0	7	0.02	0	0.02	0	7
V>>SML_NIL_1_5M	Out = Nil, avoid O/L Ballarat to Moorabool No.1	288	0	0	0	0	0	0	0	0
V>>SML_NIL_2	Out = Nil, avoid pre-contingent O/L of the	576	0	0	0	0	0	0	0	0
V>>SML_NIL_3	Out = Nil, avoid O/L the Bendigo to Fosterville to	576	0	0	0	0	0	0	0	0
 V>>SML_NIL_7A	Out = Nil, avoid O/L Ballarat North to Buangor	660	40	0	40	0.14	0	0.14	0	40
V>>SML_NIL_7A	Out = Nil, avoid O/L on the Ballarat North to	79			10	0.03	0	0.03		10
V>>SML_NIL_7B	Out = Nil, avoid O/L Buangor to Arrarat 66kV line	577	1	0	1	0.50	0	0.50	n	1
V>>SML_NIL_7B	Out = Nil, avoid O/L on the Buangor to Arrarat	32	<u>'</u>	0	<u>'</u>	0	0	1 0	0	<u>'</u>
V>>SML_NL_7B	Out = Nil, avoid O/L Orr the Buargor to Arrarat  Out = Nil, avoid O/L Arrarat to Stawell 66kV line for	576		0	0	0	0	0	0	0
V>>SML_NIL_8	Out = Nil, avoid O/L Arrarat to Stawell ook Ville for	291	0	0	0	0	0	0	0	0
V>>SML_NIL_8	Out = Nil, avoid O/L Ballarat to Bendigo 220 kV  Out = Nil, avoid O/L Ballarat to Bendigo 220 kV	288	0	0	0	0	0	1 0	0	0
V>>SML_NIL_6 V>>SML_NIL_8_5M		288	0	0	0	0	0	0	0	0
	Out = Nil, avoid O/L Ballarat to Bendigo 220 kV	288	0	0	0	0	0	0	0	0
V>>S-SEVC_SETB_SETX	Prior Outage = South East SVC with bus tie CB;		0	0	0	0	0	0	0	0
V>>V_CBTS_TX_2B_R	Outage = Cranbourne 500/220kV transformer, limit	41	0	0	0	0	0	0	0	0
V>>V_DDTX_A	Out = Dederang H2 or H3 330/220kV txfmr, avoid	23		0	6	0.02	0	0.02		6
V>>V_HWTS_TX3_3-5MOD	Out = Hazelwood #3 or #4 500/220kV transformer,	60	12		12	0.04	0	0.04	12	12
V>>V_KTS_TX_A2_2B_R	Out = Keilor A2 or A4 500/220 kV txfmr, avoid pre-	2	0	0	0	0	0	0	0	0
V>>V_LTMS_1	Out= LowerTumut-Murray(66), avoid Dederang to	81		0	19	0.07	0	0.07	19	19
V>>V_MLSY1_1A	Out = Either Sydenham-Moorabool 500 kV line,	182		0	0	0	0	0	0	0
V>>V_MLSY1_1B	Out = Either Sydenham-Moorabool 500 kV line,	182	0	0	0	0	0	0	0	0
V>>V_MLTS_TX_2_P	Out = Moorabool A1 or A2 500/220kV transformer,	104	0	0	0	0	0	0	0	0
V>>V_NIL_1A	Out = Nil, avoid O/L Dederang to Murray No.1	576	0	0	0	0	0	0	0	0
V>>V_NIL_1B	Out = Nil, avoid O/L Dederang to Murray No.2	664	73	0	73	0.25	0	0.25	0	73
V>>V_NIL_2_P	Out = Nil, avoid pre-contingent O/L of the South	116	0	0	0	0	0	0	0	0
V>>V NIL 2A R	Out = Nil, avoid pre-contingent O/L of South	1063	4	0	4	0.01	0	0.01	0	4
V>>V NIL 2A R	Out = Nil, avoid pre-contingent O/L of the South	249	0	0	0	0	0	0	0	0
V>>V_NIL_2B_R	Out = Nil, avoid pre-contingent O/L of South	1675		0	11	0.04	0	0.04	0	11
V>>V_NIL_2B_R	Out = Nil, avoid pre-contingent O/L of the South	17		0	0	0.01	0	0.01	0	0
V>>V_NIL_3	Out = Nil, avoid O/L either Dederang to South	580	4	0	4	0.01	0	0.01	0	4
V>>V_NIL_4A	Out = Nil, avoid pre-contingent O/L of the	577	1	0	1	0.01	0	0.01	0	1
V>>V_NIL_4B	Out = Nil, avoid pre-contingent O/L of the	576		0	0	0	0	0	0	0
V>>V_NIL_4C	Out = Nil, avoid pre-contingent O/L of the	576		0	0	0	0	0	0	0
	Out = Nil, avoid Dre-contingent O/L of the	661		0	11	0.15	0	0.15	0	4.4
V>>V_NIL_5	, <u> </u>	576	44	0	44	0.15	0	0.15	0	44
V>>V_NIL_6A_R	Out = Nil, avoid O/L South Morang F2 500/330 kV			0	0	0	0	0	0	0
V>>V_NIL_6B_R	Out = Nil, avoid O/L South Morang F2 500/330 kV	576		0	0	0	0	0	0	0
V>>V_NIL1A_R	Out = Nil, avoid O/L a Dederang to South Morang	79		0	0	0	0	0	0	0
V>>V_NIL1A_R	Out = Nil, avoid O/L either Dederang to South	1059		0	17	0.06	0	0.06	0	17
V>>V_ROTS_TX_2B_R	Out= Rowville A1 or A2 500/220 kV txfmr, avoid	18		0	0	0	0	0	0	0
V>>V_ROTS_TX_2B_R	Outage = Rowville 500/220kV transformer, limit	86		0	0	0	0	0	0	0
V>>V_ROTT_R_1B	Out= Rowville to Thomastown 220 kV line, avoid	89		0	84	0.29	0	0.29	84	84
V>>V_SMSY_KTSM_1A_R	Outage = One South Morang-Sydenham line;	182		0	0	0	0	0	0	0
V>>V_SMSY_KTSM_1B_R	Outage = One South Morang-Sydenham line;	196	19	0	19	0.07	0	0.07	19	19
V>>V_SMSY_SMSY_1A_R	Outage = Either South Morang-Sydenham line;	182	0	0	0	0	0	0	0	0
V>>V_SMSY_SMSY_1B_R	Outage = Either South Morang-Sydenham line;	182		0	0	0	0	0	0	0
V>>V_SMTT1_2	Out = South Morang to Thomastown No. 1 220 kV	9	0	0	0	0	0	0	0	0
V>>V_SMTT1_2	Out= South Morang to Thomastown No. 1 220 kV	107	20	0	20	0.07	0	0.07	20	20
	1 22 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					2.0.				

V>>V_SMTT2_2	Out = South Morang to Thomastown No. 2 220 kV	5	0	0	0	0	0	0	0	0
V>>V_SMTT2_2	Out= South Morang to Thomastown No. 2 220 kV	114	33	0	33	0.11	0	0.11	33	33
V>S_460	VIC to SA on Heywood upper transfer limit of 460	754	5	0	5	0.02	0	0.02	0	5
V>S_NIL_HYTX_HYTX	Out = NIL, limit VIC to SA on Heywood to avoid OL	1145	45	0	45	0.16	0	0.16	0	45
V>S_NIL_NIL_HYTX1	Out = Nil, avoid O/L Heywood M1 500/275 kV	582	0	0	0	0	0	0	0	0
V>S_NIL_NIL_HYTX2	Out = Nil, avoid O/L Heywood M2 500/275 kV	940	3	0	3	0.01	0	0.01	0	3
V>SML_BUDP_2	Out = Buronga to Balranald to Darlington Pt. (X5)	378	101	0	101	0.35	0	0.35	101	101
V>SML_BUDP_3	Out = Buronga to Balranald to Darlington Pt. (X5)	2	2	0	2	0.01	0	0.01	2	2
V>SML_NIL_8	Outage = Nil, limit Vic to SA on Murraylink to avoid	1	1	0	1	0	0	0	0	1
V>SML_NSWRB_10	Out = NSW Murraylink runback scheme, avoid O/L	576	0	0	0	0	0	0	0	0
V>SML_NSWRB_9	Out = NSW Murraylink runback scheme, avoid O/L	576	0	0	0	0	0	0	0	0
V>SML_NWCB6024+25	Out= North West Bend_CBs 6024 and 6025; limit	4	3	3	0	0.01	0.01	0	0	3
V>SML_NWCB6033_TX2	Out= North West Bend_CB6033; limit Victoria to	1	0	0	0	0	0	0	0	0
V>SML_NWCB6225_TX1	Out= North West Bend_CB6225; limit Victoria to	1	0	0	0	0	0	0	0	0
V>SMLBAHO1	Out = Ballarat to Horsham, or Bendigo to Kerang	55	11	0	11	0.04	0	0.04	11	11
V>SMLBAHO4	Out = Ballarat to Horsham or Bendigo to Kerang	2	0	0	0	0	0	0	0	0
V>SMLBAHO4	Out = Ballarat to Horsham or Bendigo to Kerang	141	7	0	7	0.02	0	0.02	7	7
V>SMLKGRC1	Out = Kerang to Redcliffs 220kV line, avoid	1	0	0	0	0	0	0	0	0
V>SMLMHNW1	Out = Monash to North West Bend # 1 132kV line,	6	0	0	0	0	0	0	0	0
VN::DDMS	Out = Dederang to Murray 330kV line, avoid	8	0	0	0	0	0	0	0	0
VS_250	Victoria to SA on Heywood upper transfer limit of	732	23	0	23	0.08	0	0.08	23	23
VS_420	Victoria to SA on VicSA upper transfer limit of 420	53	26	0	26	0.09	0	0.09	0	26
VS_HYTS_TX	Victoria to SA on VicSA upper transfer limit based	1206	305	0	305	1.06	0	1.06	0	305
VSML_000	Vic to SA on ML upper transfer limit of 0 MW	360	12	4	8	0.04	0.01	0.03	8	12
VSML_220	Vic to SA on ML upper transfer limit of 220 MW	637	19	0	19	0.07	0	0.07	0	19
VSML_VFRB_OFF	Out=Nil, Vic to SA on Murraylink <=10 for	576	0	0	0	0	0	0	0	0
		849869	18210	4487	13617	62.98	15.54	47.06	5379	18210