



REVIEW OF POWER SYSTEM RECLASSIFICATION EVENTS 1 NOVEMBER 2016 TO 30 APRIL 2017

FOR THE NATIONAL ELECTRICITY MARKET

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IMPORTANT NOTICE

Purpose

AEMO has prepared this document to review power system reclassification events in the National Electricity Market for the period 1 November 2016 to 30 April 2017.

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1. INTRODUCTION

This report sets out AEMO's reasons for decisions to re-classify *non-credible contingency events* to *credible contingency events* under clause 4.2.3A(i) of the National Electricity Rules (NER).

AEMO is required to issue such a report every six months. This report covers the period from 1 November 2016 to 30 April 2017 (**reporting period**). The report:

1. Includes an explanation of how AEMO applied the criteria established in accordance with clause 4.2.3B for each of these decisions.
2. Includes AEMO's analysis of re-classification trends during the relevant period and its appraisal of the appropriateness and effectiveness of the relevant criteria applied in the case of each reclassification decision.

In this document, a word or phrase in *this style* has the same meaning as given to that term in the NER.

2. OVERVIEW

In the reporting period, AEMO appropriately reclassified *non-credible contingency events* as *credible contingency events* based on the reclassification criteria contained in AEMO's Power System Security Guidelines SO_OP_3715¹ for bushfires, lightning or other reasons. AEMO notified *Market Participants*, via *Market Notices*², of the reasons for reclassifying these *non-credible contingency events*.

There was a total number of 600 reclassification events in this reporting period compared to 616 reclassification events during the last summer reporting period.

¹ AEMO Power System Security Guidelines. Power system operating procedures are available at: <http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Security-and-reliability/Power-system-operation>.

² A Market Notice is an email notification issued in real time by AEMO to market participants. Market Notices are also published on AEMO's website at: <https://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Market-notice-and-events>.

3. AEMO'S ROLE

In general terms, the *power system* is operated such that it will remain in a *satisfactory operating state*³ for the loss of single elements in the *transmission network*. These events are defined as *credible contingency events*⁴ and include:

- Unexpected loss of a single transmission line, transformer or reactive plant.
- Unexpected loss of a single generating unit.

AEMO considers the occurrence of these events to be reasonably possible and will ensure contingency plans are in place to minimise impact on the *power system* following a *credible contingency event*.

A *non-credible contingency event* is a *contingency event* other than a *credible contingency event*. Examples include:

- Three phase electrical faults.
- The trip of any busbar in the *transmission network*.
- The trip of more than one *transmission element*.
- The trip of *transmission plant* in a manner not considered likely (e.g. a *transmission line* that trips at one end only).
- The trip of multiple *generating units*.
- The trip of more than one *load* block in a *region* where the combined *load* lost exceeds what would normally be considered a *credible contingency event* in that *region*.

AEMO does not normally operate the *power system* such that it will remain in a *satisfactory operating state* following a *non-credible contingency event*, as the likelihood of this occurrence is low.

AEMO may reclassify a *non-credible contingency event* as a *credible contingency event* if the risk of this event impacting the *power system* is increased due to *abnormal conditions*. *Abnormal conditions* may include severe weather conditions, lightning and bushfires.⁵

4. RECLASSIFICATION CRITERIA

AEMO has developed criteria for determining if a *non-credible contingency event* should be reclassified as a *credible contingency event* (**reclassification criteria**). The reclassification criteria are specified in AEMO's Power System Security Guidelines SO_OP_3715. The reclassification criteria apply to:

- Bushfires.
- Lightning.
- Other events (pollution, protection and control issues, advice from participants).

AEMO completed a review of the reclassification criteria for lightning and bushfires in March 2016 and July 2016, respectively as required by clause 4.2.3B(b), which stipulates that they must be reviewed every two years.

The bushfire reclassification criteria were not altered as a result of the review, but the lightning reclassification criteria were. This was achieved by removing pairs of transmission lines from the 'Vulnerable Transmission Lines' list⁶ after three years (previously five years) if those lines had not tripped again due to lightning in the three years since the initial trip. This change was implemented retrospectively for lines already on the list.

³ Refer to clause 4.2.2 of the NER.

⁴ Refer to clause 4.2.3 of the NER.

⁵ See clause 4.2.3A (a) of the NER.

⁶ See Table 5 in Section 11.4.2 of SO_OP_3715 Power System Security Guidelines.



The following section analyses how AEMO reclassified *non-credible contingency events* using the reclassification criteria for the reporting period.

5. RECLASSIFICATION EVENTS 1 NOVEMBER 2016 TO 30 APRIL 2017

AEMO reclassified 600 events during the reporting period. Table 1 summarises these events. Refer to Appendix A for a complete list of events.

Table 1 **Reclassification events for period 1 November 2016 to 30 April 2017**

Criteria	Number of Reclassification Events	Incidence of contingency occurring during reclassification
Bushfires	6	0
Lightning	576	2
Other	18	1
Total for Period	600	3

In two of the lightning events and one of the other events, the contingency event occurred while reclassified. Table 2 details those events.

Table 2 **Occurrence of an event while reclassified as credible**

Start MN	Start Reclassification	Reclassified Equipment	Region	Reason	Date contingency occurred	Comments
56506	30/12/2016 01:15	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	30/12/2016	The lines tripped and auto reclosed. Lines were reclassified as credible due to lightning at the time of event.
58262	28/03/2017 12:20	Trip of Dederang - South Morang No.1 330 kV line at the South Morang end only	VIC	Other	05/04/2017	AusNet Services informed AEMO the cause of this non-credible contingency was unknown. AEMO was unable to obtain the appropriate level of information to determine the non-credible contingency is no longer reasonably possible.
58350	08/04/2017 22:10	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	08/04/2017	Dederang - Glenrowan No 1 220 kV Line auto reclosed Dederang - Glenrowan No 3 220 kV Line auto reclosed and re-opened at the Dederang end. These Lines was subject to an earlier reclassification due to lightning

AEMO correctly reclassified events due to bushfires using the criteria specified in Section 11.3 of SO_OP3715. There were six reclassifications due to bushfires in this period.

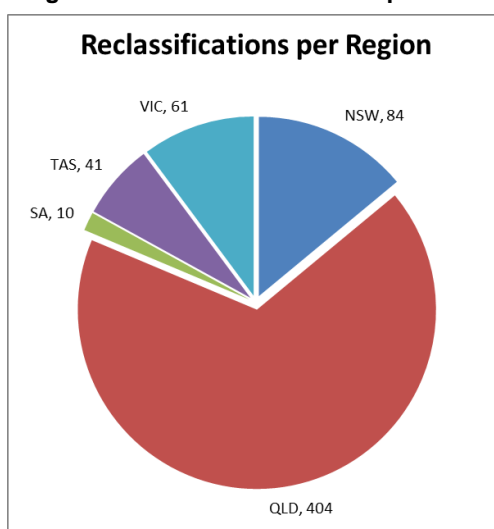
AEMO correctly reclassified events due to lightning using the criteria specified in Section 11.4 of SO_OP3715. There were 576 reclassifications due to lightning in this reporting period, only two of these events occurred while reclassified.

During the reporting period, there were 18 reclassifications for other reasons using the reclassification criteria specified in Section 11.5 and 11.6 of SO_OP_3715. These events were reclassified due to abnormal weather conditions, advice from participants, or because *non-credible contingencies* had occurred and AEMO considered there was a risk of reoccurrence.

Refer to Appendix A for all reclassifications during reporting period.

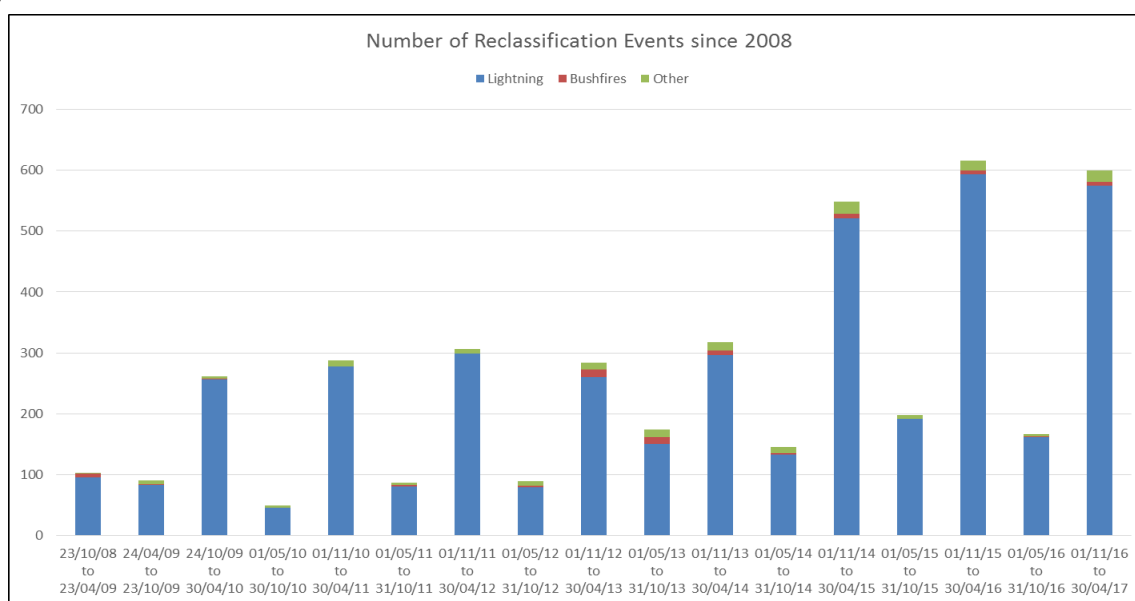
Figure 1 shows the number of reclassification events per region for the reporting period.

Figure 1 Reclassifications per region 1 November 2016 to 30 April 2017



The historical trend of reclassification events is shown in Figure 2. The number of reclassification events is very similar during this reporting period, compared to the previous summer.

Figure 2 Historical reclassification events





6. NON-CREDIBLE CONTINGENCY EVENTS 1 NOVEMBER 2016 TO 30 APRIL 2017

There were 26 *non-credible contingency events* during the reporting period. AEMO subsequently reclassified seven of these as *credible contingency events* as there was a risk of the event reoccurring.

Appendix B lists all *non-credible contingency events* during the reporting period, and AEMO's assessment in determining whether to reclassify each event as credible. The rows highlighted blue in Appendix B explain the reclassification events corresponding to the reclassifications highlighted blue in Appendix A.

7. EVENTS RECLASSIFIED IN PREVIOUS REPORTING PERIOD

The black system event in South Australia occurred at 1618 hrs on 28 September 2016. On the 3rd October 2016, AEMO reclassified the loss of multiple wind *generating units* considered high risk as a *single credible contingency* (refer to Section 6.1.2 of previous Reclassification report May 2016 to October 2016).

AEMO cancelled the reclassification of this event from the last reporting period in this period. Table 3 shows the *non-credible contingency event* that was reclassified as a *credible contingency event*. Following advice from wind farms regarding adjustments to multiple fault ride-through event count settings, the reclassification of the loss of multiple generating units following a single credible contingency on the 3rd October 2016 as being a credible contingency event was cancelled on the 24th December 2016.

Table 3 Events reclassified in previous reporting period but cancelled in this reporting period

Start MN	Start reclassification	End reclassification	Reclassified equipment	Region	Reason
55161	03/10/2016 23:45	24/12/2016 14:35	Simultaneous trip of generating units: Bluff WF, Hallet Hill WF, Hallet WF, North Brown Hill WF	SA	Other

8. MARKET IMPACT OF RECLASSIFICATION CONSTRAINTS

When AEMO reclassifies an event as a *credible contingency event*, the *power system* must be operated so it stays in a *satisfactory operating state* should the *credible contingency event* occur. One way to ensure this happens is to invoke constraint equations to manage the *power system* while an event is reclassified.

Appendix C lists the binding constraint equations during reclassification events over the reporting period.

There were 14 reclassified events that resulted in binding constraint equations.

9. CONCLUSION

AEMO concluded that, during the reporting period:

1. AEMO correctly applied the reclassification criteria.
2. AEMO notified *Market Participants* of the reasons for reclassifying *non-credible contingency events*.
3. The number of reclassification events has increased compared with historical summer trends but is close to the number of events from the last summer period.

APPENDIX A. RECLASSIFICATION EVENTS 1 NOVEMBER 2016 TO 30 APRIL 2017

Please note the below definitions:

GPATS – The Global Positioning and Tracking System (GPATS) is used to provide detection and location of cloud to ground lightning strikes. GPATS delivers 'live' data with a refresh rate of 1 second and provides full coverage of the transmission system.

INDJI – Indji Watch (INDJI) is a system that monitors live information feeds on hazards such as bushfires and displays their positions relative to the locations of transmission assets.

Table 4 **Reclassification events 1 November 2016 to 30 April 2017**

Start MN	Start Date	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
55533	01/11/2016 09:15	01/11/2016 10:10	55535	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
55537	01/11/2016 15:05	01/11/2016 23:15	55540	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
55538	01/11/2016 15:05	01/11/2016 23:15	55541	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
55542	02/11/2016 18:15	02/11/2016 23:50	55544	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
55547	03/11/2016 16:15	03/11/2016 23:50	55551	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
55553	04/11/2016 17:30	04/11/2016 21:55	55557	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
55554	04/11/2016 17:30	04/11/2016 21:55	55558	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
55555	04/11/2016 18:55	04/11/2016 21:55	55559	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
55556	04/11/2016 21:05	04/11/2016 23:15	55561	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
55560	04/11/2016 23:05	05/11/2016 00:00	55562	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
55564	05/11/2016 13:55	05/11/2016 19:05	55567	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
55565	05/11/2016 16:00	05/11/2016 19:05	55568	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
55566	05/11/2016 17:30	05/11/2016 21:55	55569	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
55579	08/11/2016 09:45	08/11/2016 16:40	55590	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
55580	08/11/2016 10:55	08/11/2016 17:20	55592	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
55588	08/11/2016 16:25	08/11/2016 21:30	55595	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS



Start MN	Start Date	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
55589	08/11/2016 16:25	08/11/2016 21:30	55596	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
55593	08/11/2016 20:35	08/11/2016 22:40	55597	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
55594	08/11/2016 21:05	08/11/2016 22:40	55598	Tarong - Chinchilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
55600	09/11/2016 14:10	09/11/2016 17:30	55610	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
55602	09/11/2016 14:20	09/11/2016 17:30	55609	Tarong - Chinchilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
55603	09/11/2016 15:30	09/11/2016 22:05	55616	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
55604	09/11/2016 15:30	09/11/2016 22:05	55617	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
55607	09/11/2016 16:30	19/12/2016 14:00	56331	Trip of all generators at H48 Braemar No.2 PS only when all 3 units online	QLD	Other	Event actually occurred
55613	09/11/2016 19:35	09/11/2016 23:55	55618	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
55614	09/11/2016 19:40	09/11/2016 23:55	55619	Tarong - Chinchilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
55627	10/11/2016 17:05	10/11/2016 23:15	55635	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
55628	10/11/2016 17:15	10/11/2016 22:00	55632	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
55631	10/11/2016 20:20	10/11/2016 22:00	55633	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
55630	10/11/2016 20:20	10/11/2016 22:00	55634	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
55648	11/11/2016 16:20	11/11/2016 21:55	55653	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
55651	11/11/2016 18:50	11/11/2016 20:50	55652	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
55659	12/11/2016 04:30	12/11/2016 07:45	55662	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
55660	12/11/2016 07:25	12/11/2016 10:30	55664	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
55661	12/11/2016 07:25	12/11/2016 10:30	55663	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
55665	12/11/2016 12:00	12/11/2016 19:50	55676	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
55667	12/11/2016 13:05	12/11/2016 23:00	55686	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
55668	12/11/2016 13:05	12/11/2016 17:10	55674	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
55669	12/11/2016 14:00	12/11/2016 19:50	55677	Tarong - Chinchilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
55670	12/11/2016 14:35	12/11/2016 17:10	55675	Bouldercombe - Rockhampton 7108 and Bouldercombe - Egans Hill 7221 132 kV Lines	QLD	Lightning	GPATS
55672	12/11/2016 16:20	12/11/2016 23:00	55687	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
55671	12/11/2016 16:20	12/11/2016 23:00	55688	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
55689	13/11/2016 00:15	13/11/2016 01:35	55690	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS





Start MN	Start Date	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
55691	13/11/2016 02:45	13/11/2016 05:25	55695	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
55694	13/11/2016 05:25	13/11/2016 09:35	55698	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
55696	13/11/2016 06:10	13/11/2016 08:15	55697	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
55701	13/11/2016 12:45	13/11/2016 22:30	55716	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
55699	13/11/2016 12:45	13/11/2016 22:30	55717	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
55700	13/11/2016 12:45	13/11/2016 18:50	55704	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
55703	13/11/2016 14:30	13/11/2016 21:20	55711	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
55707	13/11/2016 19:00	13/11/2016 20:40	55709	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
55708	13/11/2016 19:40	13/11/2016 22:35	55718	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
55710	13/11/2016 20:50	13/11/2016 23:55	55724	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
55728	14/11/2016 14:30	14/11/2016 17:00	55731	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
55729	14/11/2016 14:30	14/11/2016 17:00	55730	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
55733	14/11/2016 20:25	14/11/2016 23:55	55735	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
55734	14/11/2016 20:25	14/11/2016 23:55	55736	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
55785	21/11/2016 03:05	21/11/2016 05:25	55788	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
55786	21/11/2016 04:25	21/11/2016 05:30	55789	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
55787	21/11/2016 04:50	21/11/2016 05:45	55790	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
55791	21/11/2016 06:25	21/11/2016 10:35	55794	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
55792	21/11/2016 07:50	21/11/2016 10:35	55795	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
55793	21/11/2016 07:50	21/11/2016 10:35	55796	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
55799	21/11/2016 19:20	21/11/2016 20:45	55804	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
55798	21/11/2016 19:20	21/11/2016 20:30	55802	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
55800	21/11/2016 19:35	21/11/2016 20:30	55803	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
55801	21/11/2016 19:40	21/11/2016 21:45	55805	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
55806	21/11/2016 23:55	22/11/2016 00:25	55807	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
55808	22/11/2016 01:30	22/11/2016 02:10	55809	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
55824	23/11/2016 02:55	23/11/2016 07:10	55825	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS



Start MN	Start Date	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
55828	23/11/2016 15:40	23/11/2016 16:55	55830	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
55834	23/11/2016 18:05	23/11/2016 19:25	55835	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
55846	26/11/2016 11:30	26/11/2016 15:45	55848	Tarong - Chincilla 7183 and 7168 132 kV Lines	TAS	Lightning	GPATS
55847	26/11/2016 14:10	26/11/2016 17:15	55849	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
55855	27/11/2016 11:30	27/11/2016 20:00	55859	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
55854	27/11/2016 11:30	27/11/2016 20:00	55858	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
55860	27/11/2016 20:25	28/11/2016 02:30	55862	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
55861	27/11/2016 20:25	28/11/2016 02:30	55863	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
55869	28/11/2016 14:10	28/11/2016 16:15	55871	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
55870	28/11/2016 14:10	28/11/2016 16:15	55872	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
55868	28/11/2016 14:20	29/11/2016 01:40	55874	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
55873	28/11/2016 17:50	29/11/2016 01:40	55875	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
55884	29/11/2016 12:00	29/11/2016 23:00	55896	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
55885	29/11/2016 12:00	29/11/2016 23:00	55897	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
55888	29/11/2016 14:55	29/11/2016 19:20	55891	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
55889	29/11/2016 14:55	29/11/2016 19:20	55892	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
55890	29/11/2016 14:55	29/11/2016 19:20	55893	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
55894	29/11/2016 19:55	29/11/2016 23:35	55898	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
55895	29/11/2016 21:55	29/11/2016 23:35	55899	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
55939	30/11/2016 12:30	30/11/2016 18:30	55946	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
55940	30/11/2016 12:30	30/11/2016 18:30	55947	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
55941	30/11/2016 13:35	30/11/2016 23:40	55955	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
55948	30/11/2016 18:55	30/11/2016 21:50	55953	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
55949	30/11/2016 20:20	30/11/2016 21:50	55952	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
55950	30/11/2016 21:00	30/11/2016 23:40	55956	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
55954	30/11/2016 22:35	30/11/2016 23:50	55957	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS

Start MN	Start Date	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
56023	01/12/2016 07:55	01/12/2016 18:20	56072	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
56024	01/12/2016 07:55	01/12/2016 18:20	56073	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56062	01/12/2016 13:30	01/12/2016 19:10	56074	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56063	01/12/2016 14:00	01/12/2016 19:10	56075	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56064	01/12/2016 14:00	01/12/2016 19:10	56076	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56065	01/12/2016 15:15	01/12/2016 19:10	56077	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
56066	01/12/2016 15:15	01/12/2016 17:15	56071	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56070	01/12/2016 16:10	01/12/2016 19:10	56078	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
56133	03/12/2016 12:35	03/12/2016 20:55	56137	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56134	03/12/2016 12:35	03/12/2016 20:55	56138	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
56135	03/12/2016 15:25	03/12/2016 21:15	56139	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56136	03/12/2016 16:30	03/12/2016 21:15	56140	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56143	04/12/2016 16:50	04/12/2016 22:40	56146	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56144	04/12/2016 19:20	04/12/2016 22:40	56147	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56148	04/12/2016 23:55	05/12/2016 01:55	56166	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
56149	05/12/2016 00:05	05/12/2016 01:55	56167	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
56150	05/12/2016 00:10	05/12/2016 02:05	56168	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Other	Event actually occurred
56164	05/12/2016 01:45	05/12/2016 04:25	56170	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
56177	05/12/2016 13:45	06/12/2016 01:05	56185	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56178	05/12/2016 13:45	06/12/2016 01:05	56186	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
56180	05/12/2016 15:45	06/12/2016 16:45	56182	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
56187	06/12/2016 13:40	06/12/2016 19:35	56194	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
56188	06/12/2016 13:40	06/12/2016 19:35	56193	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56192	06/12/2016 17:55	06/12/2016 22:00	56193	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56196	07/12/2016 00:20	07/12/2016 07:05	56198	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56197	07/12/2016 01:25	07/12/2016 09:05	56199	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS



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56200	07/12/2016 09:40			Trip of 18 turbines at Woolnorth wind farm and a transmission line in Tasmania	TAS	Other	Event actually occurred
56206	07/12/2016 16:45	07/12/2016 19:30	56208	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56209	07/12/2016 20:20	08/12/2016 02:30	56211	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56210	07/12/2016 20:25	08/12/2016 02:30	56212	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56214	08/12/2016 12:20	08/12/2016 14:10	56216	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56215	08/12/2016 12:35	08/12/2016 17:00	56220	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
56217	08/12/2016 14:10	08/12/2016 23:00	56221	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
56218	08/12/2016 14:10	08/12/2016 23:00	56222	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56219	08/12/2016 16:50	08/12/2016 23:55	56223	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56229	09/12/2016 16:25	09/12/2016 23:50	56232	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
56230	09/12/2016 19:25	09/12/2016 23:50	56233	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
56231	09/12/2016 20:30	10/12/2016 01:05	56234	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
56235	10/12/2016 11:15	10/12/2016 23:10	56240	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
56241	11/12/2016 00:20	11/12/2016 05:05	56243	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56252	13/12/2016 11:25	13/12/2016 12:25	56253	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
56254	13/12/2016 13:10	13/12/2016 20:00	56264	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
56255	13/12/2016 13:10	13/12/2016 20:00	56265	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
56258	13/12/2016 15:55	15/12/2016 06:00	56274	Trip of Liddell - Newcastle (81) and Liddell - Tomago (82) 330 kV lines	NSW	Bushfires	INJI
56260	13/12/2016 16:45	13/12/2016 19:00	56261	Vineyard - Eraring (25) and Munmorah - Sydney West (26) 330 kV lines	NSW	Bushfires	INJI
56263	13/12/2016 18:55	13/12/2016 20:10	56266	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
56268	14/12/2016 14:45	14/12/2016 17:15	56270	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56269	14/12/2016 14:45	14/12/2016 17:15	56271	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56297	16/12/2016 16:45	16/12/2016 21:30	56299	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56298	16/12/2016 16:45	16/12/2016 21:30	56300	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56303	17/12/2016 15:05	17/12/2016 19:40	56311	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
56304	17/12/2016 15:05	17/12/2016 19:40	56312	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56305	17/12/2016 15:20	17/12/2016 23:35	56317	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS



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56306	17/12/2016 15:20	17/12/2016 23:35	56318	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56310	17/12/2016 17:40	17/12/2016 23:35	56320	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56315	17/12/2016 22:40	18/12/2016 05:35	56321	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
56325	18/12/2016 12:30	18/12/2016 19:15	56328	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56326	18/12/2016 13:30	18/12/2016 21:45	56329	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56340	20/12/2016 07:55	20/12/2016 13:15	56362	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
56342	20/12/2016 09:00	20/12/2016 13:15	56363	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
56364	20/12/2016 16:10	20/12/2016 19:05	56371	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
56365	20/12/2016 16:10	20/12/2016 19:05	56370	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56368	20/12/2016 19:00	20/12/2016 23:50	56374	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56369	20/12/2016 19:00	20/12/2016 23:50	56373	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56377	21/12/2016 14:20	21/12/2016 21:50	56383	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
56378	21/12/2016 14:20	21/12/2016 21:50	56382	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56384	21/12/2016 21:55	22/12/2016 04:20	56386	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56385	21/12/2016 21:55	22/12/2016 04:20	56387	Chinchilla – Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56400	22/12/2016 16:30	22/12/2016 22:50	56403	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56401	22/12/2016 18:50	22/12/2016 22:50	56402	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56406	23/12/2016 12:20	23/12/2016 20:15	56420	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56407	23/12/2016 12:45	23/12/2016 20:15	56421	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56408	23/12/2016 12:55	23/12/2016 15:10	56416	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
56426	24/12/2016 08:15	24/12/2016 10:40	56428	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
56427	24/12/2016 08:30	24/12/2016 10:40	56429	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
56430	24/12/2016 12:10	24/12/2016 14:00	56432	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
56431	24/12/2016 12:10	24/12/2016 14:00	56433	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
56435	24/12/2016 16:20	24/12/2016 19:25	56438	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
56436	24/12/2016 16:25	24/12/2016 22:15	56442	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
56437	24/12/2016 16:25	24/12/2016 22:15	56443	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS





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56444	25/12/2016 12:25	25/12/2016 19:50	56446	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56445	25/12/2016 18:25	25/12/2016 19:50	56447	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56449	26/12/2016 08:10	26/12/2016 18:15	56458	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
56450	26/12/2016 12:45	26/12/2016 18:15	56457	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
56451	26/12/2016 14:05	26/12/2016 19:30	56452	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
56452	26/12/2016 15:15	26/12/2016 16:30	56454	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
56453	26/12/2016 15:50	26/12/2016 18:15	56456	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
56455	26/12/2016 16:50	26/12/2016 19:35	56459	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
56477	27/12/2016 11:15	28/12/2016 07:15	56481	Trip of Brinkworth - Templers West and Davenport - Brinkworth 275 kV lines	SA	Other	BOM severe weather warning
56482	28/12/2016 12:15	28/12/2016 13:45	56483	Trip of Bannaby - Marulan 35 and 36 330 kV lines	NSW	Bushfires	INJI
56485	28/12/2016 16:25	29/12/2016 03:35	56487	Trip of Brinkworth - Templers West and Davenport - Brinkworth 275 kV lines	SA	Other	BOM severe weather warning
56488	29/12/2016 08:35	29/12/2016 09:15	56489	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
56490	29/12/2016 12:25	29/12/2016 18:30	56492	Trip of Bayswater - Regentville 31 and Bayswater - Sydney West 32 330 kV lines	NSW	Bushfires	INJI
56491	29/12/2016 15:35	29/12/2016 22:10	56500	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
56493	29/12/2016 19:40	29/12/2016 21:25	56497	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
56494	29/12/2016 19:40	29/12/2016 21:25	56498	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
56495	29/12/2016 19:40	29/12/2016 21:25	56499	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
56496	29/12/2016 20:10	29/12/2016 22:10	56501	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
56502	29/12/2016 22:50	30/12/2016 03:45	56507	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
56503	29/12/2016 22:50	30/12/2016 03:45	56508	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
56504	29/12/2016 22:50	30/12/2016 03:45	56509	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
56505	30/12/2016 00:55	30/12/2016 05:30	56510	Liapootah - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
56506	30/12/2016 01:15	30/12/2016 05:30	56511	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
56512	30/12/2016 11:35	30/12/2016 15:35	56517	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
56513	30/12/2016 12:35	30/12/2016 15:35	56518	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
56514	30/12/2016 13:50	30/12/2016 21:00	56524	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56516	30/12/2016 15:15	30/12/2016 22:10	56525	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS

Start MN	Start Date	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
56515	30/12/2016 15:15	30/12/2016 17:10	56523	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
56527	31/12/2016 13:05	31/12/2016 19:25	56550	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56528	31/12/2016 13:05	31/12/2016 19:25	56551	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56531	31/12/2016 13:45	31/12/2016 19:25	56552	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56535	31/12/2016 13:50	31/12/2016 19:25	56553	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
56546	31/12/2016 14:45	31/12/2016 18:15	56548	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
56547	31/12/2016 14:45	31/12/2016 18:15	56549	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
56556	01/01/2017 12:25	01/01/2017 19:55	56572	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
56557	01/01/2017 12:25	01/01/2017 19:55	56573	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56558	01/01/2017 13:20	01/01/2017 19:45	56569	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
56559	01/01/2017 13:50	01/01/2017 19:45	56570	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
56560	01/01/2017 14:20	01/01/2017 19:35	56574	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56561	01/01/2017 14:55	01/01/2017 19:15	56567	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
56562	01/01/2017 15:20	01/01/2017 21:05	56576	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56563	01/01/2017 15:20	01/01/2017 21:05	56575	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56564	01/01/2017 15:35	01/01/2017 19:45	56571	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
56566	01/01/2017 18:05	01/01/2017 19:25	56568	Liapootah - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
56579	02/01/2017 11:30	02/01/2017 19:10	56589	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
56580	02/01/2017 12:20	02/01/2017 22:30	56595	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56581	02/01/2017 13:10	02/01/2017 19:10	56590	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
56582	02/01/2017 13:15	02/01/2017 19:20	56592	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
56583	02/01/2017 13:15	02/01/2017 19:20	56591	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56584	02/01/2017 13:50	02/01/2017 23:10	56598	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56585	02/01/2017 14:00	02/01/2017 23:10	56599	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56586	02/01/2017 16:40	02/01/2017 22:30	56594	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56587	02/01/2017 18:10	02/01/2017 23:10	56593	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
56588	02/01/2017 18:10	02/01/2017 23:10	56600	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS





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56601	03/01/2017 11:35	03/01/2017 19:40	56610	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
56602	03/01/2017 12:30	03/01/2017 19:40	56609	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
56604	03/01/2017 13:35	03/01/2017 22:25	56616	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56605	03/01/2017 15:00	03/01/2017 22:25	56613	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56606	03/01/2017 16:00	03/01/2017 22:25	56614	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56607	03/01/2017 16:40	03/01/2017 19:40	56611	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
56618	04/01/2017 12:55	04/01/2017 23:10	56627	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56620	04/01/2017 13:40	04/01/2017 22:30	56625	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
56619	04/01/2017 13:40	04/01/2017 22:30	56624	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
56621	04/01/2017 15:40	04/01/2017 23:10	56628	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56622	04/01/2017 15:40	04/01/2017 23:10	56626	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56629	05/01/2017 10:10	05/01/2017 11:30	56631	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
56633	05/01/2017 13:45	05/01/2017 20:00	56646	Trip of Brinkworth - Templers West and Davenport - Brinkworth 275 kV lines	SA	Other	BOM severe weather warning
56634	05/01/2017 14:10	05/01/2017 23:45	56649	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56635	05/01/2017 14:10	05/01/2017 23:45	56650	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56636	05/01/2017 14:10	05/01/2017 23:45	56651	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56637	05/01/2017 14:30	05/01/2017 15:30	56639	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
56640	05/01/2017 15:40	05/01/2017 23:45	56652	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
56641	05/01/2017 15:40	05/01/2017 23:45	56653	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
56642	05/01/2017 16:15	05/01/2017 21:00	56648	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
56643	05/01/2017 17:25	05/01/2017 21:00	56647	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
56655	06/01/2017 09:45	06/01/2017 10:55	56657	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
56658	06/01/2017 12:45	06/01/2017 23:40	56662	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56664	07/01/2017 15:15	07/01/2017 23:50	56667	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56665	07/01/2017 15:45	07/01/2017 23:50	56668	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56666	07/01/2017 15:45	07/01/2017 23:50	56669	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56671	09/01/2017 08:40	09/01/2017 14:35	56673	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
56672	09/01/2017 10:25	09/01/2017 14:35	56674	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS



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56677	09/01/2017 21:25	09/01/2017 23:10	56680	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56678	09/01/2017 21:25	09/01/2017 23:10	56681	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56679	09/01/2017 21:25	09/01/2017 23:10	56682	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56683	10/01/2017 00:40	10/01/2017 03:45	56686	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56684	10/01/2017 00:40	10/01/2017 03:45	56687	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56685	10/01/2017 01:45	10/01/2017 03:45	56688	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56690	10/01/2017 09:05	10/01/2017 16:30	56696	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56691	10/01/2017 09:05	10/01/2017 16:30	56697	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56699	11/01/2017 12:40	11/01/2017 19:10	56704	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56756	13/01/2017 06:30	13/01/2017 08:40	56762	Trip of Brinkworth - Templers West and Davenport - Brinkworth 275 kV lines	SA	Other	BOM severe weather warning
56764	13/01/2017 18:25	13/01/2017 23:05	56780	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
56765	13/01/2017 20:25	13/01/2017 23:40	56781	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
56803	14/01/2017 10:35	14/01/2017 16:25	56831	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
56804	14/01/2017 10:45	14/01/2017 16:25	56832	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
56810	14/01/2017 12:40	14/01/2017 21:35	56845	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56820	14/01/2017 13:45	14/01/2017 21:35	56846	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56821	14/01/2017 13:45	14/01/2017 21:35	56847	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56826	14/01/2017 15:15	14/01/2017 15:50	56829	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
56827	14/01/2017 15:15	14/01/2017 15:50	56830	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56835	14/01/2017 19:00	15/01/2017 05:50	56855	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56836	14/01/2017 19:00	15/01/2017 05:50	56856	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56848	14/01/2017 21:45	14/01/2017 23:30	56851	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
56849	14/01/2017 21:45	14/01/2017 23:30	56852	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56853	15/01/2017 04:55	15/01/2017 12:55	56859	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56854	15/01/2017 04:55	15/01/2017 12:25	56858	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
56860	15/01/2017 12:50	16/01/2017 00:10	56870	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS



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56862	15/01/2017 15:10	16/01/2017 00:10	56871	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56863	15/01/2017 15:45	16/01/2017 01:00	56872	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
56864	15/01/2017 15:45	15/01/2017 17:35	56867	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56865	15/01/2017 15:45	15/01/2017 17:35	56876	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56877	16/01/2017 01:35	16/01/2017 04:50	56874	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56877	16/01/2017 16:30	16/01/2017 19:25	56879	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56878	16/01/2017 16:30	16/01/2017 19:25	56880	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56881	16/01/2017 22:50	17/01/2017 00:50	56882	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56891	17/01/2017 15:15	17/01/2017 19:35	56899	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56892	17/01/2017 15:15	17/01/2017 19:35	56900	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56896	17/01/2017 16:05	17/01/2017 19:35	56901	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
56903	18/01/2017 00:20	18/01/2017 05:20	56905	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56904	18/01/2017 00:20	18/01/2017 05:20	56906	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56917	19/01/2017 12:15	19/01/2017 17:25	56920	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56918	19/01/2017 13:30	19/01/2017 21:00	56922	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56919	19/01/2017 15:10	20/01/2017 01:25	56923	Trip of Brinkworth - Templers West and Davenport - Brinkworth 275 kV lines	SA	Other	BOM severe weather warning
56924	20/01/2017 02:25	20/01/2017 04:30	56926	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
56925	20/01/2017 02:25	20/01/2017 04:30	56927	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
56941	20/01/2017 16:40	20/01/2017 22:50	56947	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
56942	20/01/2017 16:40	20/01/2017 22:50	56948	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
56943	20/01/2017 19:05	20/01/2017 21:50	56945	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
56944	20/01/2017 19:05	20/01/2017 21:50	56946	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
56959	21/01/2017 13:15	21/01/2017 22:10	56962	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56960	21/01/2017 17:35	21/01/2017 22:10	56961	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56963	21/01/2017 22:50	22/01/2017 00:50	56966	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
56964	21/01/2017 23:50	22/01/2017 00:50	56965	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
56991	23/01/2017 14:55	23/01/2017 17:45	56993	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
56992	23/01/2017 14:55	23/01/2017 17:45	56994	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS



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57016	25/01/2017 14:45	25/01/2017 17:00	57019	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57017	25/01/2017 14:45	25/01/2017 17:00	57020	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57022	26/01/2017 15:55	26/01/2017 20:35	57026	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
57023	26/01/2017 15:55	26/01/2017 20:35	57027	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
57032	26/01/2017 22:50	27/01/2017 00:50	57033	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
57043	28/01/2017 16:30	28/01/2017 19:00	57045	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57078	30/01/2017 13:00	30/01/2017 19:45	57097	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57080	30/01/2017 14:45	30/01/2017 18:30	57093	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57100	30/01/2017 22:45	31/01/2017 00:00	57101	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57102	31/01/2017 02:00	31/01/2017 05:25	57103	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57104	31/01/2017 09:00	31/01/2017 11:15	57105	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57106	31/01/2017 12:20	31/01/2017 15:50	57122	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57113	31/01/2017 13:30	31/01/2017 17:40	57131	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57145	31/01/2017 20:10	31/01/2017 22:20	57147	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57154	01/02/2017 01:45	01/02/2017 04:00	57155	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57182	01/02/2017 23:45	02/02/2017 01:00	57183	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57190	02/02/2017 13:35	02/02/2017 16:00	57195	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57244	06/02/2017 23:40	07/02/2017 08:25	57252	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57245	07/02/2017 04:05	07/02/2017 08:25	57253	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57246	07/02/2017 04:05	07/02/2017 08:25	57254	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57278	08/02/2017 16:55	08/02/2017 18:05	57281	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
57436	11/02/2017 19:05	12/02/2017 09:05	57463	Trip of Bayswater - Regentville (31) and Bayswater - Sydney West (32) 330 kV lines	NSW	Bushfires	INJI
57437	11/02/2017 19:40	13/02/2017 05:00	57511	Trip of Muswellbrook - Tamworth No. 88 and Liddell - Muswellbrook No. 83 330 kV lines	NSW	Other	TNSP
57445	12/02/2017 01:10	12/02/2017 03:00	57455	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
57446	12/02/2017 01:10	12/02/2017 03:00	57456	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
57458	12/02/2017 04:45	12/02/2017 09:35	57464	Trip of Wagga - Lower Tumut No. 051, Murray - Lower Tumut No. 66 and Lower Tumut - Canberra No. 07 330 kV lines	NSW	Other	Event actually occurred
57459	12/02/2017 06:05	12/02/2017 07:15	57460	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS

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57461	12/02/2017 07:55	12/02/2017 12:05	57467	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
57466	12/02/2017 09:55	12/02/2017 12:10	57469	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
57471	12/02/2017 15:45	12/02/2017 21:55	57477	Trip of Bayswater - Mt Piper 5A3 and Mt Piper - Wollar 5A5 500 kV lines	NSW	Bushfires	INJI
57476	12/02/2017 21:25	12/02/2017 22:30	57478	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57480	13/02/2017 03:05	13/02/2017 09:20	57495	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
57485	13/02/2017 06:10	13/02/2017 07:45	57487	Trip of Mt England - Wivenhoe PS No. 823, Mt England - Wivenhoe PS No. 824 and Mt England - Tarong No. 8812 275 kV lines	QLD	Other	Event actually occurred
57507	13/02/2017 15:30	13/02/2017 23:00	57516	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
57508	13/02/2017 16:05	13/02/2017 22:55	57513	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57510	13/02/2017 17:50	13/02/2017 22:55	57514	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57512	13/02/2017 18:10	13/02/2017 22:55	57515	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57517	13/02/2017 23:40	14/02/2017 03:00	57519	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
57520	14/02/2017 12:50	14/02/2017 21:35	57525	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
57522	14/02/2017 14:55	14/02/2017 22:45	57526	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57523	14/02/2017 16:05	15/02/2017 03:00	57527	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
57524	14/02/2017 16:35	15/02/2017 02:10	57528	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
57529	15/02/2017 00:20	15/02/2017 03:00	57530	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57531	15/02/2017 04:20	15/02/2017 23:45	57543	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57532	15/02/2017 11:30	15/02/2017 20:00	57539	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57533	15/02/2017 11:50	15/02/2017 23:45	57544	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57534	15/02/2017 11:50	15/02/2017 23:45	57545	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57537	15/02/2017 14:50	15/02/2017 20:00	57540	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
57538	15/02/2017 15:15	15/02/2017 20:00	57541	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
57546	16/02/2017 00:00	16/02/2017 03:05	57549	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57547	16/02/2017 00:30	16/02/2017 03:05	57550	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57548	16/02/2017 01:15	16/02/2017 03:05	57551	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57556	16/02/2017 13:05	16/02/2017 23:55	57566	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57557	16/02/2017 13:35	16/02/2017 23:55	57567	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57558	16/02/2017 13:35	16/02/2017 16:20	57565	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS



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57599	16/02/2017 13:35	16/02/2017 16:20	57564	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
57562	16/02/2017 14:45	16/02/2017 23:55	57568	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57570	17/02/2017 20:10	17/02/2017 23:45	57572	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
57571	17/02/2017 20:10	17/02/2017 23:45	57573	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
57574	18/02/2017 05:00	18/02/2017 06:45	57576	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
57575	18/02/2017 05:00	18/02/2017 06:45	57577	Tarong - Chinchilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
57579	18/02/2017 16:40	19/02/2017 05:15	57598	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
57580	18/02/2017 16:40	18/02/2017 22:45	57585	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57581	18/02/2017 16:40	18/02/2017 22:45	57584	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57583	18/02/2017 20:00	19/02/2017 05:15	57599	Tarong - Chinchilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
57602	19/02/2017 14:15	19/02/2017 17:05	57609	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57603	19/02/2017 14:15	19/02/2017 17:05	57610	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57604	19/02/2017 14:15	19/02/2017 17:05	57611	Tarong - Chinchilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
57608	19/02/2017 15:35	19/02/2017 19:00	57615	Chapel St - Liapootah No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
57605	19/02/2017 15:35	19/02/2017 17:20	57612	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57606	19/02/2017 15:55	19/02/2017 20:50	57618	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57607	19/02/2017 15:55	19/02/2017 18:20	57614	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
57613	19/02/2017 18:20	19/02/2017 21:20	57619	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
57616	19/02/2017 20:20	19/02/2017 23:00	57620	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
57617	19/02/2017 20:20	19/02/2017 23:00	57621	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
57622	20/02/2017 00:45	20/02/2017 11:00	57628	Trip of Yallourn unit 1 and unit 3	VIC	Other	Generator
57629	20/02/2017 14:10	20/02/2017 18:35	57636	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57630	20/02/2017 15:10	20/02/2017 18:35	57637	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57631	20/02/2017 15:10	20/02/2017 18:35	57638	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57632	20/02/2017 15:30	20/02/2017 17:00	57634	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57633	20/02/2017 16:00	20/02/2017 17:00	57635	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
57639	21/02/2017 05:55			Trip of Eildon - Mount Beauty No.2 220 kV line at the Mount Beauty end only	VIC	Other	Event actually occurred





Start MN	Start Date	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
57641	21/02/2017 14:10	21/02/2017 22:30	57644	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57642	21/02/2017 14:10	21/02/2017 22:30	57645	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57643	21/02/2017 14:10	21/02/2017 22:30	57646	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57654	23/02/2017 14:40	23/02/2017 20:05	57660	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57655	23/02/2017 16:50	23/02/2017 17:50	57657	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57656	23/02/2017 16:50	23/02/2017 17:50	57658	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
57662	23/02/2017 23:45	24/02/2017 00:30	57663	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57670	24/02/2017 15:05	24/02/2017 19:20	57675	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
57671	24/02/2017 15:05	24/02/2017 19:20	57676	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57672	24/02/2017 15:10	25/02/2017 10:45	57680	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57674	24/02/2017 15:30	25/02/2017 10:45	57679	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57673	24/02/2017 15:30	25/02/2017 05:30	57678	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57681	25/02/2017 14:20	25/02/2017 21:25	57685	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57682	25/02/2017 14:20	25/02/2017 21:25	57686	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57687	25/02/2017 22:25	25/02/2017 23:35	57689	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57688	25/02/2017 22:25	25/02/2017 23:35	57690	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57693	26/02/2017 08:30	26/02/2017 11:15	57696	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
57694	26/02/2017 08:30	26/02/2017 11:15	57697	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
57700	26/02/2017 17:10	27/02/2017 16:00	57726	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
57701	26/02/2017 17:10	27/02/2017 16:00	57727	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
55702	26/02/2017 20:20	27/02/2017 00:50	55704	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
55703	26/02/2017 20:20	27/02/2017 00:50	55705	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
57719	27/02/2017 14:50	27/02/2017 22:40	57735	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
57723	27/02/2017 15:25	27/02/2017 22:40	57737	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
57724	27/02/2017 15:40	27/02/2017 17:30	57729	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57725	27/02/2017 15:40	27/02/2017 17:30	57730	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
57728	27/02/2017 16:35	27/02/2017 22:40	57736	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS



Start MN	Start Date	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
57731	27/02/2017 20:25	27/02/2017 21:45	57733	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
57732	27/02/2017 20:25	27/02/2017 21:45	57734	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
57738	28/02/2017 00:25	28/02/2017 03:45	57740	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
57739	28/02/2017 00:25	28/02/2017 03:45	57741	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
57751	28/02/2017 15:30	28/02/2017 22:50	57754	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
57756	01/03/2017 02:25	01/03/2017 05:10	57758	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
57757	01/03/2017 02:25	01/03/2017 05:10	57759	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
57766	01/03/2017 14:50	02/03/2017 01:15	57786	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
57767	01/03/2017 14:50	02/03/2017 01:15	57785	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
57773	01/03/2017 15:35	01/03/2017 20:40	57784	Trip of Quarantine PS units 1,2,3 and 4	SA	Other	Generator
57776	01/03/2017 18:05	01/03/2017 19:30	57781	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
57787	02/03/2017 11:50	02/03/2017 21:45	57803	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
57789	02/03/2017 14:35	02/03/2017 21:45	57804	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
57790	02/03/2017 14:35	02/03/2017 19:10	57796	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57793	02/03/2017 17:30	02/03/2017 20:45	57800	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
57794	02/03/2017 17:30	02/03/2017 20:45	57799	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
57795	02/03/2017 17:55	02/03/2017 19:30	57798	Hadspen - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
57797	02/03/2017 19:10	02/03/2017 21:10	57802	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
57805	02/03/2017 22:55	02/03/2017 23:55	57806	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57807	03/03/2017 04:35	03/03/2017 05:40	57808	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57810	03/03/2017 11:45	03/03/2017 18:35	57822	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57825	04/03/2017 13:55	04/03/2017 21:50	57836	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57826	04/03/2017 13:55	04/03/2017 21:50	57837	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57827	04/03/2017 14:50	04/03/2017 21:50	57838	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57828	04/03/2017 15:15	05/03/2017 05:00	57846	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
57829	04/03/2017 15:40	04/03/2017 21:35	57834	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS

Start MN	Start Date	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
57831	04/03/2017 16:30	04/03/2017 21:35	57835	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
57831	04/03/2017 16:35	05/03/2017 05:00	57847	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
57833	04/03/2017 21:00	04/03/2017 23:50	57842	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
57832	04/03/2017 21:00	04/03/2017 23:40	57841	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
57839	04/03/2017 22:00	04/03/2017 23:50	57843	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
57840	04/03/2017 22:00	04/03/2017 23:50	57844	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
57850	05/03/2017 13:50	05/03/2017 23:55	57859	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57851	05/03/2017 13:50	05/03/2017 23:55	57860	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57852	05/03/2017 15:30	05/03/2017 23:55	57861	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57853	05/03/2017 16:30	05/03/2017 18:20	57854	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
57855	05/03/2017 20:00	05/03/2017 23:55	57862	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
57856	05/03/2017 20:55	05/03/2017 23:55	57863	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57848	05/03/2017 21:00	05/03/2017 21:50	57857	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
57849	05/03/2017 21:00	05/03/2017 21:50	57858	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
57866	06/03/2017 14:50	06/03/2017 20:25	57874	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57867	06/03/2017 14:50	06/03/2017 20:25	57875	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
57868	06/03/2017 15:10	06/03/2017 19:30	57872	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57869	06/03/2017 15:30	06/03/2017 19:30	57871	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57870	06/03/2017 15:30	06/03/2017 19:30	57873	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57876	06/03/2017 22:00	06/03/2017 23:45	57877	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57878	07/03/2017 03:00	08/03/2017 08:40	57901	Trip of Pelican Point GT11 and largest on-line Torrens Island generating unit	SA	Other	Event actually occurred
57881	07/03/2017 13:10	07/03/2017 19:15	57892	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
57883	07/03/2017 13:35	07/03/2017 19:15	57893	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
57886	07/03/2017 15:25	07/03/2017 22:40	57895	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57887	07/03/2017 15:25	07/03/2017 22:40	57896	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57889	07/03/2017 16:15	07/03/2017 22:40	57897	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57891	07/03/2017 17:45	07/03/2017 22:40	57898	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS



Start MN	Start Date	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
57905	08/03/2017 13:30	09/03/2017 05:20	57915	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57906	08/03/2017 13:30	09/03/2017 05:20	57916	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57907	08/03/2017 13:35	08/03/2017 23:55	57914	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
57908	08/03/2017 14:50	09/03/2017 05:20	57917	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57913	08/03/2017 22:35	09/03/2017 05:20	57918	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
57936	09/03/2017 14:00	10/03/2017 05:05	57944	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57940	09/03/2017 14:55	10/03/2017 05:05	57946	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57939	09/03/2017 14:55	10/03/2017 05:05	57945	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
57935	09/03/2017 15:15	13/03/2017 11:50	57974	Trip of TIPS B2 unit plus largest remaining TIPS B unit	SA	Lightning	Event actually occurred
57976	13/03/2017 19:20	14/03/2017 07:00	57982	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
57977	13/03/2017 19:30	14/03/2017 07:00	57983	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
57978	13/03/2017 22:20	14/03/2017 03:00	57980	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
57979	13/03/2017 22:20	14/03/2017 03:00	57981	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
57986	14/03/2017 12:55	15/03/2017 16:20	58035	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
57989	14/03/2017 14:05	14/03/2017 23:55	58005	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
57990	14/03/2017 14:25	14/03/2017 21:50	58002	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
57991	14/03/2017 15:05	14/03/2017 23:55	58006	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
57992	14/03/2017 15:15	14/03/2017 23:00	58003	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
57993	14/03/2017 15:35	14/03/2017 17:40	57996	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
57994	14/03/2017 16:00	14/03/2017 17:40	57997	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
57995	14/03/2017 16:00	14/03/2017 17:40	57998	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58000	14/03/2017 19:35	14/03/2017 21:50	58001	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
58004	14/03/2017 23:35	15/03/2017 00:40	58007	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
58009	15/03/2017 03:30	15/03/2017 09:00	58017	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
58015	15/03/2017 08:50	15/03/2017 18:50	58038	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
58016	15/03/2017 08:50	15/03/2017 18:50	58039	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
58022	15/03/2017 11:30	15/03/2017 23:55	58047	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS





Start MN	Start Date	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
58026	15/03/2017 12:05	15/03/2017 23:55	58046	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
58029	15/03/2017 13:10	16/03/2017 00:40	58049	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
58030	15/03/2017 14:10	15/03/2017 21:00	58041	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
58033	15/03/2017 15:45	15/03/2017 21:00	58042	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
58036	15/03/2017 16:20	15/03/2017 21:00	58043	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58044	15/03/2017 22:15	16/03/2017 00:20	58048	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
58050	16/03/2017 08:45	16/03/2017 09:35	58052	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
58051	16/03/2017 09:00	16/03/2017 09:45	58053	George Town - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
58055	16/03/2017 10:25	16/03/2017 11:30	58059	George Town - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
58056	16/03/2017 10:25	16/03/2017 11:30	58060	Hadspen - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
58057	16/03/2017 10:25	16/03/2017 11:30	58061	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
58063	16/03/2017 13:20	16/03/2017 21:15	58079	Tarong - Chinchilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
57986	16/03/2017 13:55	16/03/2017 21:45	58081	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
58068	16/03/2017 15:10	16/03/2017 21:15	58080	Chinchilla - Columboola 7349 and 7350 132 kV Lines	QLD	Lightning	GPATS
58067	16/03/2017 15:10	16/03/2017 20:30	58076	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
58071	16/03/2017 15:25	16/03/2017 20:30	58077	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
58072	16/03/2017 15:25	16/03/2017 20:30	58078	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58083	17/03/2017 14:10	17/03/2017 21:00	58091	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
58085	17/03/2017 14:55	17/03/2017 21:00	58092	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
58086	17/03/2017 16:35	17/03/2017 21:00	58093	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
58087	17/03/2017 16:35	17/03/2017 21:00	58094	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58088	17/03/2017 16:35	17/03/2017 21:00	58095	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
58090	17/03/2017 17:45	17/03/2017 21:00	58096	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
58101	18/03/2017 04:10	18/03/2017 10:10	58103	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
58104	18/03/2017 11:00	18/03/2017 22:40	58114	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
58105	18/03/2017 13:10	18/03/2017 22:40	58115	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
58106	18/03/2017 14:05	18/03/2017 15:30	58109	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
58107	18/03/2017 14:30	18/03/2017 22:40	58117	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS

Start MN	Start Date	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
58108	18/03/2017 14:30	18/03/2017 22:40	58116	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58110	18/03/2017 14:30	18/03/2017 22:40	58118	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
58112	18/03/2017 17:55	18/03/2017 23:25	58119	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	NSW	Lightning	GPATS
58113	18/03/2017 17:55	18/03/2017 23:25	58120	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
58121	19/03/2017 01:10	19/03/2017 08:20	58125	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
58122	19/03/2017 01:10	19/03/2017 08:20	58126	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58123	19/03/2017 01:10	19/03/2017 08:20	58124	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
58127	19/03/2017 10:50	19/03/2017 22:25	58141	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
58128	19/03/2017 10:55	19/03/2017 23:55	58143	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
58129	19/03/2017 10:55	19/03/2017 22:25	58142	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
58130	19/03/2017 11:25	19/03/2017 18:35	58136	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
58131	19/03/2017 13:00	19/03/2017 19:00	58137	Coffs Harbour to Raleigh (9W3) and Boambee South to Nambucca (9W7) 132 kV lines	QLD	Lightning	GPATS
58132	19/03/2017 13:00	19/03/2017 19:00	58138	Coffs Harbour to Raleigh (9W3) and Coffs Harbour to Boambee Sth (9W8) 132kV Lines	NSW	Lightning	GPATS
58133	19/03/2017 13:30	19/03/2017 22:25	58139	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
58134	19/03/2017 13:30	19/03/2017 22:25	58140	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58134	19/03/2017 13:30	19/03/2017 22:25	58140	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58135	19/03/2017 16:10	20/03/2017 04:05	58144	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
58149	20/03/2017 13:45	20/03/2017 23:55	58167	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
58150	20/03/2017 14:05	20/03/2017 15:50	58156	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
58152	20/03/2017 14:40	20/03/2017 16:00	58157	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
58153	20/03/2017 14:40	20/03/2017 16:00	58158	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
58154	20/03/2017 14:45	20/03/2017 16:00	58159	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
58155	20/03/2017 15:50	20/03/2017 19:00	58163	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
58161	20/03/2017 16:30	20/03/2017 23:40	58165	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
58160	20/03/2017 16:30	20/03/2017 17:45	58162	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58164	20/03/2017 20:55	20/03/2017 23:55	58166	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
58169	21/03/2017 09:35	21/03/2017 12:30	58174	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS



Start MN	Start Date	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
58170	21/03/2017 11:05	21/03/2017 13:15	58176	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
58179	21/03/2017 13:50	21/03/2017 15:30	58181	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
58186	21/03/2017 18:05	21/03/2017 20:00	58188	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58187	21/03/2017 18:15	21/03/2017 20:00	58189	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
58190	21/03/2017 22:35	22/03/2017 04:30	58191	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
58193	22/03/2017 13:25	22/03/2017 14:05	58195	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
58197	22/03/2017 14:05	23/03/2017 04:25	58211	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
58198	22/03/2017 14:45	22/03/2017 15:55	58201	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
58196	22/03/2017 15:40	23/03/2017 04:25	58210	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58203	22/03/2017 15:55	22/03/2017 23:45	58209	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
58200	22/03/2017 15:55	22/03/2017 21:45	58207	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
58202	22/03/2017 16:30	22/03/2017 17:25	58204	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
58205	22/03/2017 17:20	22/03/2017 21:45	58208	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
58206	22/03/2017 19:45	23/03/2017 04:25	58212	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
58213	23/03/2017 05:10	23/03/2017 14:10	58218	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
58217	23/03/2017 12:35	23/03/2017 19:10	58227	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
58216	23/03/2017 12:35	23/03/2017 19:10	58224	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
58219	23/03/2017 14:15	23/03/2017 19:10	58225	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
58220	23/03/2017 14:15	23/03/2017 19:10	58226	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58223	23/03/2017 19:10	23/03/2017 21:00	58229	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
58231	24/03/2017 14:25	24/03/2017 17:35	58232	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58251	27/03/2017 13:30	27/03/2017 15:50	58254	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
58253	27/03/2017 13:50	27/03/2017 20:00	58257	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
58252	27/03/2017 13:50	27/03/2017 20:00	58256	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
58262	28/03/2017 12:20			Trip of Dederang - South Morang No.1 330 kV line at the South Morang end only	VIC	Other	Event actually occurred
58264	28/03/2017 14:25	29/03/2017 04:00	58278	Trip of multiple lines between Nebo and Ross	QLD	Other	BOM
58290	29/03/2017 12:05	29/03/2017 14:30	58292	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
58293	29/03/2017 14:30	29/03/2017 17:20	58295	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS





Start MN	Start Date	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
58294	29/03/2017 14:50	29/03/2017 22:10	58296	7306 Collinsville – Stony Ck and Collinsville – Newlands 132kV Lines	QLD	Lightning	GPATS
58297	29/03/2017 23:50	30/03/2017 02:30	58300	Bouldercombe – Rockhampton 7108 and Bouldercombe – Egans Hill 7221 132 kV lines	QLD	Lightning	GPATS
58305	30/03/2017 13:45	30/03/2017 17:50	58309	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58306	30/03/2017 16:40	30/03/2017 17:50	58310	Ross to Chalumbin 857 & 858 275 kV Transmission Lines	QLD	Lightning	GPATS
58319	31/03/2017 14:00	31/03/2017 23:05	58322	Chalumbin - Turkinje 7165 and 7166 132 kV Lines	QLD	Lightning	GPATS
58349	08/04/2017 19:25	09/04/2017 19:10	58367	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
58350	08/04/2017 22:10	08/04/2017 23:25	58531	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
58353	09/04/2017 00:05	09/04/2017 19:10	58368	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
58355	09/04/2017 01:00	09/04/2017 02:45	58358	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
58356	09/04/2017 02:15	09/04/2017 02:45	58357	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
58361	09/04/2017 06:30	09/04/2017 12:30	58364	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
58362	09/04/2017 07:00	09/04/2017 08:30	58363	Chapel St - Liapootah No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
58406	20/04/2017 15:00	20/04/2017 20:00	58408	Trip of Para - Templers West and Magill - Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning
58407	20/04/2017 15:20	20/04/2017 20:00	58409	Trip of Brinworth - Davenport, Brinworth - Templers West and Para - Templers West 275 kV lines	SA	Other	BOM severe weather warning
58421	22/04/2017 16:30	22/04/2017 17:40	58422	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
58430	25/04/2017 02:10	25/04/2017 03:25	58434	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS

APPENDIX B. NON-CREDIBLE CONTINGENCY EVENTS 1 NOVEMBER 2016 TO 30 APRIL 2017

Table 5 Non-credible contingency events 1 November 2016 to 30 April 2017

Date of contingency	Description	Region	Reason	Was the contingency then reclassified?	Comments
08/11/2016 14:07	Trip of 3 units at H48 Braemar 2	QLD	Faulty gas supply solenoid	Yes	Braemar2 three units tripped simultaneously from a combined output of 368 MW. Min frequency of 49.732 Hz at 14:12 and remained below 49.85 Hz for 377 seconds. Arrow Energy updated AEMO that during periods when all three Braemar units are running, the PS will be at risk of tripping on a credible contingency. Simultaneous trip of three units at Braemar2 PS declared credible at 1500 hrs on 08/11/2016 until further notice. MN 55583 issued. AEMO has cancelled the simultaneous trip of all three generating units at Braemar2 Power Station as a credible contingency event at 1400 hrs 19/12/2016.
10/11/2016 09:53	Trip of the Hazelwood – Loy Yang No. 1 500 kV Line at the Hazelwood end only	VIC	Staff working on the protection	No	AusNet informed AEMO the cause of the trip was staff working on the protection at Hazelwood and work practices were modified so the non-credible contingency event was no longer reasonably possible.
14/11/2016 20:34	Trip of the Innisfail, No2 132kV bus	QLD	Faulty Y protection	No	The Innisfail, No2 132kV bus tripped, offloading El Arish 7255 132 kV line and No2 transformer. No load loss. Faulty Y protection identified and isolated.
30/11/2016 00:39	Trip of the Liddell – Tomago No. 82 330 kV line at the Tomago end only	NSW	Faulty relay	No	The Liddell – Tomago No. 82 330 kV line tripped at the Tomago end only. The line was placed on load at 0044 hrs but tripped again at 0049 hours and remained out of service. The cause of this non-credible contingency event has been identified and AEMO is satisfied that another occurrence of this event is unlikely under the current circumstances. AEMO will not reclassify this event as a credible contingency event.
05/12/2016 00:43	Trip of the Farrell – Sheffield No.1 220 kV line and Basslink	TAS	Lightning storms	Yes	The Farrell – Sheffield No1 220 kV line and Basslink tripped simultaneously during a lightning storm. Basslink was transferring 365 MW from Victoria to Tasmania at the time of the trip which resulted in the operation of the FCSPS scheme and the interruption of 390 MW of MIL load in Tasmania. AEMO has reclassified the loss of any transmission line in Tasmania and Basslink Interconnector to be a credible contingency event for Basslink flow in the direction of Victoria to Tasmania only, except for faults on either of the two George Town to Pacific Aluminium 220KV transmission lines. AEMO has cancelled the reclassification of the simultaneous trip of those circuits as a credible contingency event at 0205 hrs 05/12/2016 as there was no longer any lightning activity in the vicinity.

Date of contingency	Description	Region	Reason	Was the contingency then reclassified?	Comments
17/12/2016 22:23	Trip of the Dysart No. 1 132 kV Busbar	QLD	CT failure on the 1T 132/66 kV Transformer	No	This event offloaded 7383 Dysart – Eagle Downs and 7150/2 Dysart – Lillydale tee Norwich Park 132 kV transmission lines at Dysart substation. No. 1 SVC and No. 3C capacitor disconnected at Dysart substation. The cause of the bus trip was a CT failure associated with the 1T 132 / 66 kV Transformer. This plant remains out of service for repair. Hence, the cause of the event is known and is not likely to reoccur.
20/12/2016 07:38	Trip of the Eildon Mount Beauty No. 1 and No. 2 220 kV Lines	VIC	Lightning storms	Yes	The TNSP confirmed the trip was a simultaneous 3 phase trip of the double circuit transmission line during a lightning storm. The cause could not be attributed to a cause other than lightning. Hence, NEM RTO determined this was a lightning trip as per SO_OP_3715. The lightning storm was still in the vicinity of the transmission lines so NEM RTO reclassified these lines as a credible contingency due to lightning. AEMO has cancelled the reclassification of the simultaneous trip of those circuits as a credible contingency event at 1315 hrs 20/12/2016 as there was no longer any lightning activity in the vicinity.
20/12/2016 09:33	Trip of the Sheffield – George Town No. 1 and No. 2 220 kV Lines	TAS	Communications bearer issue	No	When the Sheffield – George Town No. 1 and No. 2 220 kV Lines tripped simultaneously, the Sheffield – Palmerston 220 kV line was overloaded. The following generating units tripped: Lemonthyme/Wilmot, Cethana, Fisher and Devils Gate, a loss of approximately 217 MW of generation. It is understood a protection scheme operated to trip this generation to relieve the overload on the Sheffield-Palmerston line. The TNSP informed AEMO the cause was due to a communications bearer issue and that the fault had been rectified and was not likely to happen again. Hence, AEMO did not reclassify the trip of both SH – GT lines as a credible contingency event.
23/12/2016 22:47	Trip of the Innisfail No. 1 132 kV Busbar	QLD	Snake contacting the 132 kV busbar	No	The Innisfail No. 1 132 kV Busbar tripped (Queensland region), offloading 7139 Innisfail – Edmonton 132 kV transmission line and No. 1 132/22 kV Transformer at Innisfail sub. No. 1C capacitor disconnected at Innisfail sub. The cause of the bus trip was initiated by a snake contacting the 132 kV busbar. Hence, the cause of the event is known and is not likely to reoccur.
28/12/2016 13:54	Trip of 96 Newcastle to Waratah West 330 kV Line at Newcastle end only	NSW	Faulty protection relay	No	The 96 Newcastle to Waratah West 330 kV line tripped and automatically reclosed at the Newcastle end only. TransGrid suspected the inadvertent trip was caused by a protection relay type fault and initiated repairs. The line remained in service. AEMO did not reclassify this event as a credible contingency event.
23/01/2017 07:31	Trip of the SESS No2 Line /M2 transformer 275 kV circuit breaker at Heywood terminal station	VIC	Faulty CB phase discrepancy relay	No	The SESS No2 Line /M2 transformer 275 kV circuit breaker at Heywood terminal station opened automatically (CB 108). This off loaded the HYTS 500/275 kV M2 transformer. AusNet suspect the inadvertent trip was caused by a control issue and attempted (after advising AEMO) to close the circuit breaker. Circuit breaker failed to successfully close. The cause of this non-credible contingency event has been identified and AEMO is satisfied that another occurrence of this event is unlikely under the current circumstances. The problem was a faulty CB phase discrepancy relay and it has been rectified.
09/02/2017 19:43	Trip of the Munmorah 330 kV Main Bus and Munmorah	NSW	Faulty protection relay	No	The Munmorah 330 kV Main Bus tripped and the Munmorah – Tuggerah 2M 330 kV Transmission line opened at the Munmorah end. Faulty protection relay on 2M Transmission line at Munmorah identified as cause. Relay to be repaired.



Date of contingency	Description	Region	Reason	Was the contingency then reclassified?	Comments
	– Tuggerah 330 kV Transmission line				
11/02/2017 21:22	Trip of Multiple 330 kV Lines (Southern NSW) and Wagga 330 kV A Bus	NSW	Faulty protection relay	Yes	Wagga 330 kV Bus A, 63 Wagga - Darlington Pt, 051 Lower Tumut - Wagga, 64 Lower Tumut - Upper Tumut, 66 Murray - Lower Tumut 330 kV lines tripped. The X5 Buronga - Darlington Pt 220 kV line & 07 Lower Tumut - Canberra 330 kV line deloaded. Severe electrical storm with Murray to Lower Tumut 66 330 kV line trip due to lightning and Lower Tumut to Upper Tumut 64 330 kV line trip due to towers down. Both 64 & 66 lines are in the same easement for part of the route. Faulty protection relay at Canberra end of Lower Tumut to Canberra 07 330 kV line. The Wagga330 A 330kV bus trip and the Lower Tumut to Wagga 051 330 kV line trip were caused by incorrect pallet switch indication on the 051 line bypass isolator 0541 at Wagga330. i.e. Protection detected that the bypass isolator was closed when actually open. This resulted in no protection discrimination on 051 line at Wagga. TG advised that they have identified the cause of Canberra – Lower Tumut 07 330 kV line opening at Canberra end only, have resolved the issue (replaced protection relay) and that this trip is unlikely to reoccur. Cancellation reclassification of a non-credible contingency event was then issued at 0935 hrs 12/02/2017 by AEMO.
13/02/2017 03:40	Unplanned outage of Multiple Mt England substation 4 275 kV transmission lines	QLD	Damaged VT	Yes	Mt England substation 4 275 kV transmission lines tripped simultaneously. This event offloaded approximately 480 MW of pump load at Wivenhoe Power Station. The cause of the event was the explosive failure of a VT associated with the Mt England – South Pine No. 825 275 kV Line at Mt England. Powerlink attributed the trip of the other lines to significant transients caused by the fault on Line 825. Mt England - Wivenhoe PS No. 823 and 824 Lines were returned to service. At that time Powerlink were unable to inform AEMO of the cause of the simultaneous trip of all 4 transmission lines or the likelihood of it happening again. AEMO did not receive sufficient information to determine if the non-credible contingency event is no longer reasonable possible. Hence, AEMO reclassified the 3 in service lines as a credible contingency event. The Mt England – South Pine No. 825 Line was out of service for repair. AEMO cancelled the reclassification at 0745 hrs 13/02/2017 after Powerlink informed that the cause of the non-credible contingency had been resolved and a reoccurrence is no longer reasonably possible.
13/02/2017 17:09	Loss of Multiple transmission elements at Mt England	QLD	Broken overhead earth wire	No	Powerlink advised Line 837 tripped due to a broken overhead earth wire. The de-energisation of the No.1 275 kV Bus and Line 823 were the result of the particular switching arrangement at Mt England at the time. Lines 825 and 8812 were out of service due to issues associated with the VT explosion earlier on 13/02/2017. When Line 837 tripped this de-energised the No.1 275 kV Bus. A remote trip signal from Wivenhoe PS opened CB 8232. Capacitor CB 5812 also closed due to low volts and then re-opened at zero volts as the bus de-energised. Based on information received from the TNSP, the cause of the events at 1709 hrs 13/02/17 at H12 Mt England substation are understood and AEMO does not intend to reclassify them as a credible contingency event.



Date of contingency	Description	Region	Reason	Was the contingency then reclassified?	Comments
13/02/2017 17:09	Trip of the Tarong No. 875 275 kV Line	QLD	Lightning storms	No	Trip Blackwall - Tarong No. 875 275 kV Line which auto re-closed. Powerlink advised this was unrelated to the event that occurred. There was a severe electrical storm at the time, suspect cause due to lightning.
19/02/2017 07:54	Trip of the Eildon PS No2 220kV bus	VIC	CB phase discrepancy protection	No	The Eildon PS No2 220kV bus tripped while attempting to bring the No 1 EPS generator online. This offloaded the MBTS No 1 220 kV line. The No 1 generator 220 kV CB phase discrepancy protection appears to have caused the event. The cause of this non credible contingency event has been identified and AEMO is satisfied that another occurrence of this event is unlikely under the current circumstances. AEMO will not reclassify this event as a credible contingency event.
21/02/2017 05:54	Trip of the Eildon – Mount Beauty No.2 220 kV line at Mount Beauty end only	VIC	AusNet Services were unable to provide a cause for this event	Yes	A non-credible contingency event occurred when the Eildon Power Station (EPS) to Mount Beauty Terminal Station (MBTS) No.2 220 kV line opened at the Mount Beauty end only. AusNet Service placed the line back on load at 0555 hrs. At the time AusNet Services were unable to provide a cause for this event and as the line had been returned to service this event was reclassified as a credible event by AEMO from 0555 hrs 21/02/2017.
03/03/2017 15:03	Trip of TIPS B 275 kV West bus and Multiple Generator trips in SA Region	SA	Explosive failure of a VT associated with TIPS B unit	No	At Torrens Island Power Station (TIPS) B switchyard the explosive failure of a VT associated with TIPS B unit 4 generator bay resulted in flashovers and damage to both TIPS B unit 3 and unit 4 generator bays and the trip of TIPS B 275 kV West bus, the TIPS B units 2, 3, 4 and the Pelican Point combined cycle (PPCC) unit. Total generation lost was 610 MW over a 4 minute period. The severe voltage disturbance shook off approximately 250 MW of load. The remainder of the immediate deficit was carried on the Heywood interconnector which briefly reached 918 MW at 1512 hrs. The Pelican Point combined cycle unit returned to service at 1747 hrs and the TIPS B unit 2 returned to service at 1959 hrs. The TIPS B 275 kV West bus and TIPS B unit 3 and unit 4 generators remain out of service for repairs.
15/03/2017 03:07	SESS No2 Line /M2 transformer 275 kV circuit breaker at Heywood terminal station opened automatically	VIC	Faulty relay	No	The SESS No2 Line /M2 transformer 275 kV circuit breaker at Heywood terminal station opened automatically (CB 108). This off loaded the HYTS 500/275 kV M2 transformer. At 0309 hrs the SESS No2 Line /M2 Transformer 275kV circuit breaker at Heywood terminal station was returned to service. AusNet Services identified the cause of the trip of CB 108 to be a faulty relay and at 1200 hrs on 15 March 2017, there was a short notice outage of the M2 Transformer to replace the relay.
14/03/2017 20:03	Trip and Auto-reclose (SPAR) of Calvale – Halys 8810 and 8811 275 kV Lines	QLD	Lightning storms	No	There was a single phase trip and auto-reclose of the Calvale - Halys No. 8810 and No. 8811 275 kV Transmission Lines (Qld region). There was lightning in the vicinity of these lines. This was a single phase trip, hence this is not considered a Lightning trip as per SO_OP_3715. NEM RTO did not reclassify these lines as vulnerable lines.



Date of contingency	Description	Region	Reason	Was the contingency then reclassified?	Comments
26/03/2017 10:56	Trip of the Dederang - South Morang 1 330 kV Line at Sth Morang end only	VIC	AusNet is still investigating and no cause of the incident has been identified yet.	Yes	The Dederang - South Morang No. 1 330 kV Line opened at the South Morang end only. At 1220 hrs on 28/03/17, AEMO reclassified this event as a credible contingency event. The contingency reoccurred at 0931 hrs on 05/04/17. AusNet have set up monitoring equipment at South Morang to help identify the cause of the trip. The contingency reoccurred at 0850 hrs on 29/04/17. AusNet Services informed AEMO the cause of this non-credible contingency was unknown. AEMO was unable to obtain the appropriate level of information to determine the non-credible contingency is no longer reasonably possible.
29/03/2017 08:40	Trip of Mudgeeraba No. 2 and No. 4 110 kV Bus	QLD	Staff working at Mudgeeraba	No	Mudgeeraba No. 2 and No. 4 110 kV Bus tripped. This bus trip also tripped Mudgeeraba – Terranora No. 758 110 kV Line which interrupted supply to Terranora substation (58 MW) and disconnected Directlink. Mudgeeraba – Terranora No. 757 110 kV Line and Directlink cable 2 were out of service due to planned outage. All load was restored by 0930 hrs. The cause of the bus trip was identified as staff working at Mudgeeraba. AEMO did not reclassify this event as a credible contingency.
04/04/2017 03:07	Trip of Murarrie No.1 110 kV Bus coincident with trip of 7270 Murarrie – Lytton Bulk Supply 110 kV Line	QLD	CT ratio mismatch on the transformer differential protection	No	The Murarrie No.1 110 kV Bus tripped coincident with the trip of the 7270 Murarrie to Lytton Bulk Supply 110 kV Line. CBs associated with Energex's transformer No.6 at Victoria Park also opened concurrently. There was no reported loss of load or generation, AEMO did not instruct load shedding and the power system remained secure. Powerlink advised at Murarrie 110 kV VT failure associated with Lytton Bulk Supply Line CB 72702. The VT is part of a PASS Unit which contains the CB, CT and VT. Energex advised the trip at Victoria Park was related to the fault at Murarrie. It was due to CT ratio mismatch on the transformer differential protection. Further faults on the particular unit are not possible as it is out of service and will be removed.
15/04/2017 16:44	Trip of the Broken Hill No 2 220/22 kV Transformer and the No 2 Section 22 kV Bus	NSW	Cat contacting the No 2 22 kV bus section	No	The Broken Hill No 2 220/22 kV Transformer and the No 2 Section 22 kV Bus tripped. (Also subsequent loss of Broken Hill Solar Farm from 8 MW) The condition that caused the non-credible contingency event has been resolved. The cause of the event has been identified as a cat contacting the No 2 22 kV bus section. TransGrid advised trip of the transformer is consistent with the bus trip.
18/04/2017 11:07	Trip of the Moorabool - Mortlake 500 kV Line at the Moorabool end only	VIC	Faulty CVT	No	The Moorabool - Mortlake 500 kV Line tripped at the Moorabool end only. The line was manually tripped at the Mortlake end at 1110 hrs. The cause of the line trip was a faulty CVT at Moorabool which caused over-voltage protection to operate. Initially AusNet Services were unable to advise AEMO if the protection operated as per design so AEMO declared a non-credible contingency event. This was cancelled when AEMO received updated information from AusNet Services that the protection operated as per design. At 2251 hrs the MLTS – MOPS Line was returned to service using the CVT from the MLTS – TRTS line as a temporary measure until the faulty CVT is repaired. AusNet Services confirmed there was no increased risk of a simultaneous trip of MLTS-MOPS and MLTS- TRTS lines with the temporary CVT arrangement in place.



APPENDIX C. MARKET IMPACT OF RECLASSIFICATION CONSTRAINTS 1 NOVEMBER 2016 TO 30 APRIL 2017

Table 6 Reclassification constraints that bound over the reporting period

Reclassification Start time	Reclassification End time	Reclassified Equipment	Constraint	Number of Dispatch Intervals binding
21/11/2016 04:25	21/11/2016 05:30	Farrell Reece No. 1 and No. 2 220kV lines	F_T+FARE_N-2_TG_R6_2	11
			F_T+FARE_N-2_TG_R60	12
			F_T+FARE_N-2_TG_R5	12
			F_T+FARE_N-2_RREG	4
			F_T+FARE_N-2_TG_R6_1	3
21/11/2016 06:50	21/11/2016 07:50	Farrell Reece No. 1 and No. 2 220kV lines	F_T+FARE_N-2_TG_R60	12
			F_T+FARE_N-2_TG_R6_1	12
			F_T+FARE_N-2_TG_R5	12
21/11/2016 07:50	21/11/2016 10:35	Farrell - Sheffield No. 1 and No. 2 220kV lines	T>T_FASH_1_N-2	66
			F_T+FASH_N-2_TG_R6_1	26
			F_T+FASH_N-2_TG_R60	13
			F_T+FASH_N-2_TG_R5	12
			F_T+FASH_N-2_RREG	16
21/11/2016 19:20	21/11/2016 20:45	Farrell - Sheffield No. 1 and No. 2 220kV lines	T>T_FASH_1_N-2	34
			F_T+FASH_N-2_TG_R6_1	17
			F_T+FASH_N-2_TG_R5	15
			F_T+FASH_N-2_TG_R60	14
22/11/2016 01:30	22/11/2016 02:10	Farrell - Sheffield No. 1 and No. 2 220kV lines	F_T+FASH_N-2_RREG	4
			F_T+FASH_N-2_TG_R6_1	2
			F_T+FASH_N-2_TG_R6_2	6
			T_FASH_MAXGEN_1	6
05/12/2016 00:10	05/12/2016 02:05	Farrell - Sheffield No. 1 and No. 2 220kV lines	F_T+FASH_N-2_RREG	44





Reclassification Start time	Reclassification End time	Reclassified Equipment	Constraint	Number of Dispatch Intervals binding
			F_T+FASH_N-2_TG_R5	4
			F_T+FASH_N-2_TG_R6_1	4
29/12/2016 19:40	29/12/2016 21:25	Farrell - Sheffield No. 1 and No. 2 220kV lines	F_T++FASH_N-2_TG_R5	21
			F_T++FASH_N-2_TG_R6	21
			T>T_FASH_1_N-2	42
			F_T++FASH_N-2_TG_R60	20
			F_T+FASH_N-2_RREG	12
30/12/2016 00:00	30/12/2016 01:00:00	Farrell - Sheffield No. 1 and No. 2 220kV lines	F_T+FARE_N-2_TG_R60	2
			F_T+FARE_N-2_TG_R6_1	1
			F_T++FARE_N-2_TG_R6	6
29/12/2016 22:50	30/12/2016 03:45	Farrell - Sheffield No. 1 and No. 2 220kV lines	F_T+FASH_N-2_RREG	16
			F_T+FASH_N-2_TG_R6_1	8
			F_T++FASH_N-2_TG_R5	18
			F_T+FASH_N-2_TG_R60	2
			T_FASH_MAXGEN_1	5
			T>T_FASH_1_N-2	34
			F_T++FASH_N-2_TG_R6	15
01/01/2017 18:05	01/01/2017 19:25	Liapootah - Waddamana Tee Palmerston No. 1 and No. 2 220 kV Lines	T>T_NIL_LIPM_N-2_2B	3
16/03/2017 08:45	16/03/2017 09:35	Farrell - Sheffield No. 1 and No. 2 220kV lines	F_T+FASH_N-2_RREG	14
			F_T+FASH_N-2_TG_R6_1	2
			F_T+FASH_N-2_TG_R5	1
			F_T+FASH_N-2_TG_R60	1
16/03/2017 10:25	16/03/2017 11:30	Liapootah - Waddamana Tee Palmerston No. 1 and No. 2 220 kV Lines	T>T_NIL_LIPM_N-2_2B	13
09/04/2017 06:30	09/04/2017 12:30	Farrell - Sheffield No. 1 and No. 2 220kV lines	F_T+FASH_N-2_RREG	102
			F_T+FASH_N-2_TG_R60	6



Reclassification Start time	Reclassification End time	Reclassified Equipment	Constraint	Number of Dispatch Intervals binding
07/03/2017 03:00	08/03/2017 08:40	Pelican Point GT11 and largest on-line Torrens Island generating unit trip	V::S_PP+TIPSB_MG	39
			V::S_PP+TIPSB_MG_2	37