



Review of Power System Reclassification Events 1 May 2018 to 31 October 2018

February 2019

A report for the National Electricity Market

Important notice

PURPOSE

AEMO has prepared this report on its power system reclassification decisions in the National Electricity Market for the period 1 May 2018 to 31 October 2018 in accordance with clause 4.2.3A(i) of the National Electricity Rules.

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1. Introduction

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

AEMO is required by clause 4.2.3A(i) of the NER to report on reclassification decisions every six months. This report covers the period from 1 May 2018 to 31 October 2018 (reporting period). The report includes:

1. An explanation of how AEMO applied the criteria established in accordance with clause 4.2.3B for each of these decisions.
2. AEMO's analysis of reclassification trends during the reporting 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.

References to times in this report, unless otherwise specified, are to Australian Eastern Standard Time (AEST).

2. Overview

There was a total of 280 reclassification events in this reporting period, compared to 209 reclassification events during the previous winter reporting period (1 May 2017 to 31 October 2017).

All but one of the reclassifications were appropriately determined in accordance with the reclassification criteria in AEMO's Power System Security Guidelines SO_OP_3715¹, for bushfires, lightning, or other reasons.

AEMO notified *Market Participants*, via Market Notices (MNs)², of the reasons for reclassifying these *non-credible contingency events*.

3. AEMO's role

In general terms, the *power system* is operated such that it will remain in a *satisfactory operating state*³ following the loss of a single major *transmission* or *generation* element. 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.

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-notices-and-events>.

³ Refer to clause 4.2.2 of the NER.

⁴ Refer to clause 4.2.3 of the NER.

AEMO considers the occurrence of these events to be reasonably possible (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 (for example, a *transmission line* that trips at one end only).
- The trip of multiple *generating units*.

AEMO is not required to operate the *power system* with the capability to remain in a *satisfactory operating state* following *non-credible contingency events* (other than any *protected events*), as the likelihood of their occurrence is low.

AEMO must reclassify a *non-credible contingency event* as a *credible contingency event* if the risk of this event impacting the *power system* has become reasonably possible due to *abnormal conditions*. *Abnormal conditions* may include severe weather conditions, lightning, and bushfires⁵.

4. Reclassification criteria

AEMO has developed criteria for determining whether 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 (such as severe weather or other threats with the potential to impact multiple generating units, pollution, protection and control issues, the occurrence of a *non-credible contingency event*).

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

5. Reclassification events, 1 May 2018 to 31 October 2018

AEMO reclassified 280 events during the reporting period. Table 1 summarises these events.

⁵ Refer to clause 4.2.3A (a) of the NER.

Refer to Appendix A1 for a complete list of events.

Table 1 Reclassification events for period 1 May 2018 to 31 October 2018

Criteria	Number of reclassification events	Incidence of contingency occurring during reclassification
Bushfires	6	0
Lightning	224	0
Other	50	0
Total for Period	280	0

AEMO reclassified all bushfire and lightning events in accordance with the reclassification criteria specified in Section 11.3 and Section 11.4 of SO_OP_3715 respectively.

There were 50 events reclassified under other criteria according to Section 11.5 and 11.6 of SO_OP_3715. Most of these were reclassified due to either:

- Forecast abnormal weather conditions (such as severe weather warnings due to high wind or cyclones), or
- Occurrence of a non-credible contingency event while AEMO considered there was a reasonable possibility of reoccurrence.

There were no occurrences of events while they were reclassified as credible.

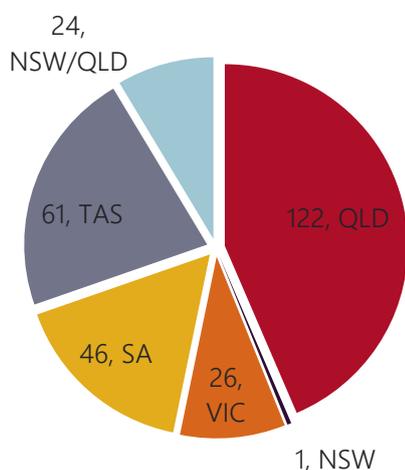
One reclassification under other criteria was not consistent with the reclassification criteria.

On 1 August 2018, Snuggery No.3 132/33 kV transformer and Mount Gambier No.2 132/33 kV transformer tripped. The trip of Mount Gambier transformer was unexpected, and it offloaded the South East – Mount Gambier 132 kV line. When Mount Gambier transformer was returned to service, AEMO reclassified the trip of Mount Gambier transformer and another network element in the local 132 kV network as a credible contingency event, based on advice from ElectraNet that the trip was due to unstable protection operation. AEMO cancelled the reclassification on 10 August 2018 when the protection issue had been rectified.

AEMO later identified that the event should not have been reclassified because it did not meet the definition of a *contingency event* - Mount Gambier transformer and the local 132 kV network are not classified as *transmission elements*.

Figure 1 shows the number of reclassification events per region for the reporting period. The NSW/QLD segment in the figure below is due to the reclassification impacting both NSW and QLD regions.

Figure 1 Reclassifications per region, 1 May 2018 to 31 October 2018

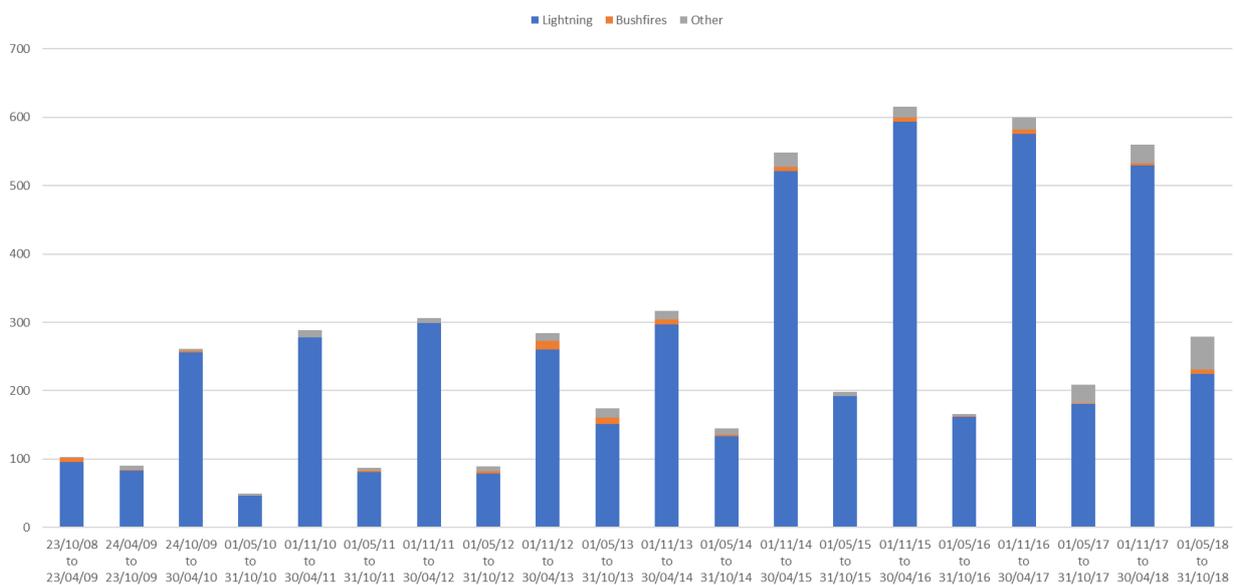


The historical trend of reclassification events is shown in Figure 2. The number of reclassification events increased for all categories during this reporting period compared to the previous winter reporting period (1 May 2017 to 31 October 2017).

The number of reclassifications due to lightning increased by 24% overall from 180 in the previous winter, to 224 for this reporting period. For Queensland, in particular, lightning reclassifications increased from 76 to 115 between the two periods. In addition, there were 23 lightning reclassifications for Bulli Creek to Dumaresq 330 kV lines since the lines were added to the vulnerable transmission line list for lightning reclassifications during this reporting period.

The main contributor for the increased number of other reclassifications was due to severe weather reclassifications in South Australia. This number increased from 18 in the previous winter to 42 for this reporting period.

Figure 2 Historical reclassification events, 2009-18



Appendix A2 lists all the reclassified elements and the number of times they were reclassified during the period 1 May 2018 to 31 October 2018.

6. Non-credible contingency events, 1 May 2018 to 31 October 2018

During the reporting period, 22 *non-credible contingency events* occurred. AEMO subsequently reclassified eight of these events as *credible contingency events*, because there was a risk of the event reoccurring.

Note that the following events cancelled within this reporting period were initially reclassified before the period, so are not listed in Appendix A1:

- Trip of Moorabool – Sydenham No. 1 500 kV line at Sydenham end only on 27 March 2018.
- Trip of H67 Calliope River – H8 Boyne Island 7145 132 kV line and Gladstone Unit 1 on 18 February 2018.

Appendix A3 lists all *non-credible contingency events* that occurred during the reporting period, and AEMO's assessment of whether to reclassify each event as credible. The rows highlighted in blue in Appendix A3 explain the contingency events corresponding to the reclassifications highlighted in blue in Appendix A1.

One non-credible contingency event occurred before the reporting period, but was reclassified within the period, so is listed in Appendix A1 and A3:

- Trip of Loy Yang A3 and Pelican Point GT 12 and ST 18 on 23 April 2018.

6.1 Queensland and South Australia separation event

The separation of Queensland and South Australia from the rest of the *National Electricity Market (NEM)* occurred on 25 August 2018. The initiating event was the simultaneous trip of both Queensland – New South Wales Interconnector (QNI) lines following a lightning strike at 13:11:39. The trip of QNI lines resulted in separation of the Queensland region from the rest of the NEM power system. This was followed by the separation of South Australia from the rest of the NEM.

Prior to this event on 25 August 2018, QNI was not considered vulnerable to lightning, as there was no 'probable' or 'proven' risk of lightning strikes impacting both lines in accordance with the lightning reclassification criteria. Accordingly, the simultaneous trip of both QNI lines was not reclassified as credible due to the storm activity in the area.

After the resynchronisation of Queensland, AEMO reclassified the simultaneous trip of the QNI lines as a credible contingency and applied reclassification constraints pending identification of the cause. AEMO cancelled the reclassification at 17:45 on 25 August 2018, after Powerlink advised that the cause of the simultaneous trip was lightning strikes to transmission infrastructure impacting both circuits.

AEMO's decisions on reclassification of QNI were appropriate and consistent with the published reclassification criteria in SO_OP_3715. The two QNI 330 kV lines from Bulli Creek terminal station in Queensland to Dumaresq terminal station in New South Wales were later included in the vulnerable transmission line list for lightning reclassifications, specified in SO_OP_3715. Between 25 August 2018 and the end of the reporting period, there were 23 reclassifications for the simultaneous loss of Bulli Creek to Dumaresq 330 kV lines.

AEMO did not reclassify the simultaneous non-credible loss of the South Australia – Victoria interconnector at Heywood as credible, as the Heywood Emergency Control Scheme (known as the EAPT scheme) had operated in accordance with its design criteria.

The published incident report⁶ has more details of the event.

7. Reclassification constraints

When AEMO reclassifies an event as a *credible contingency event*, it seeks to operate the *power system* so it stays in a *satisfactory operating state* should the *credible contingency event* occur. AEMO typically invokes constraint equations to manage the *power system* accordingly while an event is reclassified.

Appendix A4 lists the binding constraint equations during reclassification events over the reporting period.

There were 13 reclassified events that resulted in binding constraint equations.

8. Conclusion

AEMO concluded that, during the reporting period:

1. AEMO's reclassification decisions were appropriate and consistent with the reclassification criteria, with one exception.
2. AEMO notified Market Participants of the reasons for reclassifying non-credible contingency events.
3. The number of reclassification events was materially higher than historical winter period averages.

⁶ AEMO, Final report – Queensland and South Australia system separation on 25 August 2018, available at: http://www.aemo.com.au/-/media/Files/Electricity/NEM/Market_Notices_and_Events/Power_System_Incident_Reports/2018/Qld---SA-Separation-25-August-2018-Incident-Report.pdf.

A1. Reclassification events, 1 May 2018 to 31 October 2018

Please note:

- 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. It is also used to provide detection and location of cloud to ground lightning strikes across the NEM transmission system.
- BOM – AEMO receives advice from the Bureau of Meteorology (BOM) when severe weather is forecast in regions that may impact the NEM transmission system.

The events highlighted in blue below occurred after they were reclassified as a credible contingency. Further details on the reclassifications highlighted blue can be found in Appendix A3.

Table 2 Reclassification events 1 May 2018 to 31 October 2018

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
63930	17/08/2018 1100hrs	17/08/2018 1320hrs	63932	Coffs Harbour to Lismore (89) 330 kV line and the Koolkhan to Lismore (967) 132 k V line	NSW	Bushfires	INDJI
64002	25/08/2018 1515hrs	26/08/2018 1745hrs	64012	Bulli Creek – Dumaresq 8L and 8M 330 kV line causing Queensland and South Australia system separation	NSW/QLD	Other	Event Occurred
64118	7/09/2018 0805hrsh	7/09/2018 0940hrs	64131	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
64138	7/09/2018 2210hrs	8/09/2018 0835hrs	64151	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
64504	25/09/2018 0050hrs	25/09/2018 1230hrs	64518	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
64540	26/09/2018 1000hrs	26/09/2018 0235hrs	64553	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
64580	26/09/2018 1310hrs	26/09/2018 1405hrs	64593	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
64636	29/09/2018 0300hrs	29/09/2018 0500hrs	64637	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
64668	30/09/2018 0310hrs	30/09/2018 0415hrs	64669	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
64724	6/10/2018 1440hrs	6/10/2018 1910hrs	64738	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
64774	10/10/2018 1330hrs	10/10/2018 2335hrs	64779	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
64795	11/10/2018 1320hrs	11/10/2018 2020hrs	64802	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
64821	12/10/2018 1030hrs	12/10/2018 1435hrs	64831	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
64854	13/10/2018 0615hrs	13/10/2018 0715hrs	64855	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
64923	17/10/2018 1345hrs	17/10/2018 1445hrs	64937	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
64950	18/10/2018 0210hrs	18/10/2018 0440hrs	64952	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
64954	18/10/2018 1135hrs	18/10/2018 1225hrs	64970	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
64972	18/10/2018 1335hrs	18/10/2018 1635hrs	64983	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
65020	19/10/2018 1550hrs	19/10/2018 1640hrs	65033	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
65056	20/10/2018 1850hrs	20/10/2018 2050hrs	65058	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
65067	21/10/2018 0910hrs	21/10/2018 1340hrs	65071	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
65112	24/10/2018 1535hrs	24/10/2018 1620hrs	65114	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
65115	24/10/2018 1700hrs	24/10/2018 1900hrs	65116	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
65118	24/10/2018 2005hrs	24/10/2018 2310hrs	65121	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
65122	25/10/2018 1510hrs	25/10/2018 1940hrs	65126	Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD	Lightning	INDJI
62719	5/05/2018 1855hrs	5/05/2018 2220hrs	62731	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
62724	5/05/2018 2010hrs	5/05/2018 2155hrs	62728	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
62950	26/05/2018 1105hrs	26/05/2018 1950hrs	62952	Trip of Strathmore No. 1 and No. 2 132 kV buses	QLD	Other	Event Occurred
63185	13/06/2018 1330hrs	13/06/2018 1625hrs	63188	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
63310	2/07/2018 1255hrs	2/07/2018 1455hrs	63316	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
63311	2/07/2018 1325hrs	2/07/2018 1730hrs	63319	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
63312	2/07/2018 1345hrs	2/07/2018 1445hrs	63313	Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD	Lightning	INDJI

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
63315	2/07/2018 1455hrs	2/07/2018 1555hrs	63317	Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD	Lightning	INDJI
63593	25/07/2018 1640hrs	25/07/2018 1840hrs	63597	Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD	Lightning	INDJI
63595	25/07/2018 1810hrs	25/07/2018 2210hrs	63601	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
63596	25/07/2018 1830hrs	25/07/2018 2230hrs	63602	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
63598	25/07/2018 1900hrs	25/07/2018 2000hrs	63599	Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD	Lightning	INDJI
63603	25/07/2018 2245hrs	26/07/2018 0145hrs	63604	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
63976	21/08/2018 0805hrs	10/09/2018 1230hrs	64167	Trip of Unit 3 Stanwell Power station and any one of the individual 275 kV transmission lines connected to H29 Stanwell	QLD	Other	Event Occurred
64004	25/08/2018 2015hrs	25/08/2018 2115hrs	64005	Moranbah Goonyella 7369 and 7370 132 kV lines	QLD	Lightning	INDJI
64006	25/08/2018 2135hrs	25/08/2018 2235hrs	64007	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
64099	6/09/2018 0945hrs	6/09/2018 1430hrs	64101	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Bushfires	INDJI
64133	7/09/2018 1640hrs	8/09/2018 1745hrs	64161	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Bushfires	INDJI
64312	20/09/2018 0050hrs	20/09/2018 0155hrs	64314	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
64313	20/09/2018 0050hrs	20/09/2018 0155hrs	64315	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64520	25/09/2018 1320hrs	25/09/2018 1725hrs	64533	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64534	25/09/2018 1735hrs	25/09/2018 1840hrs	64537	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
64535	25/09/2018 1735hrs	25/09/2018 1840hrs	64536	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64538	25/09/2018 1915hrs	25/09/2018 2020hrs	64539	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64594	26/09/2018 1515hrs	26/09/2018 2020hrs	64597	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
64596	26/09/2018 1745hrs	26/09/2018 2020hrs	64598	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64600	27/09/2018 1435hrs	27/09/2018 1540hrs	64601	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64602	27/09/2018 1615hrs	27/09/2018 1715hrs	64605	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
64651	29/09/2018 1845hrs	29/09/2018 2150hrs	64652	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64670	30/09/2018 0640hrs	30/09/2018 0945hrs	64671	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64673	30/09/2018 0920hrs	30/09/2018 1325hrs	64675	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64672	30/09/2018 1020hrs	30/09/2018 1225hrs	64674	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
64677	30/09/2018 1625hrs	1/10/2018 1750hrs	64695	Chalumbin – Walkamin No.876 and Chalumbin – Woree No.877 275 kV lines	QLD	Bushfires	TNSP
64719	5/10/2018 1620hrs	5/10/2018 2325hrs	64722	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64720	5/10/2018 2100hrs	5/10/2018 2200hrs	64721	Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD	Lightning	INDJI
64723	6/10/2018 1245hrs	6/10/2018 1545hrs	64737	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64739	7/10/2018 1410hrs	7/10/2018 1615hrs	64740	Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD	Lightning	INDJI
64741	7/10/2018 1625hrs	7/10/2018 1930hrs	64742	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64756	8/10/2018 1245hrs	8/10/2018 1650hrs	64759	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64757	8/10/2018 1425hrs	8/10/2018 1525hrs	64758	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
64764	9/10/2018 1325hrs	9/10/2018 1925hrs	64770	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64765	9/10/2018 1550hrs	9/10/2018 1850hrs	64767	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
64768	9/10/2018 1905hrs	9/10/2018 2105hrs		Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD	Lightning	INDJI
64773	10/10/2018 1325hrs	10/10/2018 1630hrs	64777	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
64776	10/10/2018 1430hrs	10/10/2018 1730hrs	64778	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64792	11/10/2018 0950hrs	11/10/2018 1455hrs	64797	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
64793	11/10/2018 1010hrs	11/10/2018 2010hrs	64801	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64798	11/10/2018 1525hrs	11/10/2018 1825hrs	64800	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
64803	12/10/2018 0315hrs	12/10/2018 0415hrs	64804	Goonyella – North Goonyella Tee – Stoney Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD	Lightning	INDJI

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
64805	12/10/2018 0645hrs	12/10/2018 0650hrs	64806	Collinsville – Mackay tee Proserpine 7125 and 7126 132 kV lines	QLD	Lightning	INDJI
64807	12/10/2018 0715hrs	12/10/2018 0820hrs	64808	Goonyella – North Goonyella Tee – Stoney Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD	Lightning	INDJI
64822	12/10/2018 1050hrs	12/10/2018 1450hrs	64833	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64823	12/10/2018 1130hrs	12/10/2018 1500hrs	64834	Moranbah Goonyella 7369 and 7370 132 kV lines	QLD	Lightning	INDJI
64824	12/10/2018 1145hrs	12/10/2018 1445hrs	64832	Goonyella – North Goonyella Tee – Stoney Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD	Lightning	INDJI
64824	12/10/2018 1210hrs	12/10/2018 1310hrs	64828	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
64830	12/10/2018 1405hrs	12/10/2018 2335hrs	64841	7306 Collinsville – Stony Ck and Collinsville – Newlands 132 kV lines	QLD	Lightning	INDJI
64835	12/10/2018 1520hrs	12/10/2018 2220hrs	64839	Goonyella – North Goonyella Tee – Stoney Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD	Lightning	INDJI
64836	12/10/2018 1825hrs	12/10/2018 2330hrs	64840	Collinsville – Mackay tee Proserpine 7125 and 7126 132 kV lines	QLD	Lightning	INDJI
64837	12/10/2018 1845hrs	13/10/2018 0045hrs	64844	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Lightning	INDJI
64838	12/10/2018 2205hrs	13/10/2018 0205hrs	64846	Chalumbin – Turkinjie No. 7165 and No. 7166 132 kV lines	QLD	Lightning	INDJI
64842	13/10/2018 0010hrs	13/10/2018 0210hrs	64847	Goonyella – North Goonyella Tee – Stoney Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD	Lightning	INDJI
64843	13/10/2018 0035hrs	13/10/2018 0225hrs	64849	Moranbah Goonyella 7369 and 7370 132 kV lines	QLD	Lightning	INDJI
64845	13/10/2018 0110hrs	13/10/2018 0210hrs	64848	7306 Collinsville – Stony Ck and Collinsville – Newlands 132 kV lines	QLD	Lightning	INDJI
64850	13/10/2018 0240hrs	13/10/2018 0540hrs	64853	Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD	Lightning	INDJI
64851	13/10/2018 0400hrs	13/10/2018 0730hrs	64856	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Lightning	INDJI
64858	13/10/2018 1105hrs	13/10/2018 1910hrs	64868	Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD	Lightning	INDJI
64859	13/10/2018 1230hrs	13/10/2018 2100hrs	64869	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Lightning	INDJI
64861	13/10/2018 1450hrs	13/10/2018 1820hrs	64867	Chalumbin – Turkinjie No. 7165 and No. 7166 132 kV lines	QLD	Lightning	INDJI
64864	13/10/2018 1535hrs	13/10/2018 2135hrs	64870	Moranbah Goonyella 7369 and 7370 132 kV lines	QLD	Lightning	INDJI

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
64865	13/10/2018 1550hrs	13/10/2018 2150hrs	64871	Goonyella – North Goonyella Tee – Stoney Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD	Lightning	INDJI
64872	14/10/2018 0040hrs	14/10/2018 0140hrs	64874	Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD	Lightning	INDJI
64904	16/10/2018 1515hrs	16/10/2018 1645hrs	64907	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Lightning	INDJI
64906	16/10/2018 1640hrs	16/10/2018 1755hrs	64910	Chalumbin – Turkinjie No. 7165 and No. 7166 132 kV lines	QLD	Lightning	INDJI
64908	16/10/2018 1655hrs	16/10/2018 1855hrs	64911	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Lightning	INDJI
64912	16/10/2018 1920hrs	16/10/2018 2025hrs	64914	Chalumbin – Turkinjie No. 7165 and No. 7166 132 kV lines	QLD	Lightning	INDJI
64918	17/10/2018 1220hrs	17/10/2018 1220hrs	64920	Collinsville – Mackay tee Proserpine 7125 and 7126 132 kV lines	QLD	Lightning	INDJI
64919	17/10/2018 1220hrs	17/10/2018 2220hrs	64944	7306 Collinsville – Stony Ck and Collinsville – Newlands 132 kV lines	QLD	Lightning	INDJI
64921	17/10/2018 1225hrs	17/10/2018 1755hrs	64942	Goonyella – North Goonyella Tee – Stoney Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD	Lightning	INDJI
64922	17/10/2018 1300hrs	17/10/2018 2230hrs	64945	Moranbah Goonyella 7369 and 7370 132 kV lines	QLD	Lightning	INDJI
64938	17/10/2018 1450hrs	17/10/2018 1720hrs	64940	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Lightning	INDJI
64943	17/10/2018 2030hrs	17/10/2018 2335hrs	64947	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Lightning	INDJI
64948	18/10/2018 0110hrs	18/10/2018 0510hrs	64953	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Lightning	INDJI
64949	18/10/2018 0145hrs	18/10/2018 0345hrs	64951	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
64976	18/10/2018 1420hrs	18/10/2018 1520hrs	64978	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
64977	18/10/2018 1455hrs	18/10/2018 1555hrs	64981	7306 Collinsville – Stony Ck and Collinsville – Newlands 132 kV lines	QLD	Lightning	INDJI
64979	18/10/2018 1535hrs	18/10/2018 2135hrs	65011	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
64980	18/10/2018 1540hrs	18/10/2018 1640hrs	64984	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Lightning	INDJI
64982	18/10/2018 1610hrs	18/10/2018 1810hrs	65003	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
64985	18/10/2018 1650hrs	18/10/2018 1820hrs	65004	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Lightning	INDJI
65012	19/10/2018 0020hrs	19/10/2018 0325hrs	65014	Chalumbin – Turkinjie No. 7165 and No. 7166 132 kV lines	QLD	Lightning	INDJI
65057	20/10/2018 2040hrs	21/11/2018 0045hrs	65060	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
65059	20/10/2018 2150hrs	21/10/2018 0050hrs	65061	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
65062	21/10/2018 0425hrs	21/10/2018 1230hrs	65070	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
65063	21/10/2018 0425hrs	21/10/2018 0700hrs	65064	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
65066	21/10/2018 0740hrs	21/10/2018 1645hrs	65075	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
65073	21/10/2018 1420hrs	21/10/2018 1625hrs	65074	Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD	Lightning	INDJI
65081	22/10/2018 1835hrs	22/10/2018 2310hrs	65086	Goonyella – North Goonyella Tee – Stoney Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD	Lightning	INDJI
65083	22/10/2018 1935hrs	22/10/2018 2310hrs	65087	Moranbah Goonyella 7369 and 7370 132 kV lines	QLD	Lightning	INDJI
65084	22/10/2018 1950hrs	22/10/2018 2250hrs	65085	Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD	Lightning	INDJI
65088	23/10/2018 0310hrs	23/10/2018 0410hrs	65090	7306 Collinsville – Stony Ck and Collinsville – Newlands 132 kV lines	QLD	Lightning	INDJI
65097	23/10/2018 1520hrs	23/10/2018 1720hrs	65102	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Lightning	INDJI
65098	23/10/2018 1540hrs	23/10/2018 1740hrs	65105	7306 Collinsville – Stony Ck and Collinsville – Newlands 132 kV lines	QLD	Lightning	INDJI
65099	23/10/2018 1550hrs	23/10/2018 1655hrs	65101	Goonyella – North Goonyella Tee – Stoney Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD	Lightning	INDJI
65100	23/10/2018 1645hrs	23/10/2018 1750hrs	65106	Collinsville – Mackay tee Proserpine 7125 and 7126 132 kV lines	QLD	Lightning	INDJI
65119	24/10/2018 2100hrs	24/10/2018 2200hrs	65120	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
65123	25/10/2018 1655hrs	26/10/2018 0600hrs	65128	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Bushfires	INDJI
65125	25/10/2018 1855hrs	25/10/2018 2155hrs	65127	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
65129	26/10/2018 1640hrs	27/10/2018 1320hrs	65132	Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	Bushfires	INDJI
65133	28/10/2018 2205hrs	28/10/2018 0110hrs	65134	Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD	Lightning	INDJI
65138	29/10/2018 1615hrs	29/10/2018 2020hrs	65141	Tarong – Chincilla 7183 and 7168 132 kV lines	QLD	Lightning	INDJI
65139	29/10/2018 1830hrs	29/10/2018 2030hrs	65142	Goonyella – North Goonyella Tee – Stoney Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD	Lightning	INDJI
65140	29/10/2018 1855hrs	29/10/2018 2155hrs	65143	Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD	Lightning	INDJI

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
65146	30/10/2018 1610hrs	30/10/2018 2215hrs	65150	Moranbah Goonyella 7369 and 7370 132 kV lines	QLD	Lightning	INDJI
65147	30/10/2018 1610hrs	30/10/2018 2215hrs	65149	Goonyella – North Goonyella Tee – Stoney Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD	Lightning	INDJI
65151	30/10/2018 2320hrs	31/10/2018 0220hrs	65153	Moranbah Goonyella 7369 and 7370 132 kV lines	QLD	Lightning	INDJI
65152	30/10/2018 2320hrs	31/10/2018 0230hrs	65154	Goonyella – North Goonyella Tee – Stoney Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD	Lightning	INDJI
65155	31/10/2018 0540hrs	31/10/2018 0745hrs	65170	Goonyella – North Goonyella Tee – Stoney Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD	Lightning	INDJI
65156	31/10/2018 0540hrs	31/10/2018 0745hrs	65169	Moranbah Goonyella 7369 and 7370 132 kV lines	QLD	Lightning	INDJI
65195	31/10/2018 1315hrs	31/10/2018 1620hrs	65197	Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD	Lightning	INDJI
65199	31/10/2018 1715hrs	31/10/2018 1920hrs	65202	7306 Collinsville – Stony Ck and Collinsville – Newlands 132 kV lines	QLD	Lightning	INDJI
65200	31/10/2018 1715hrs	31/10/2018 2150hrs	65217	Goonyella – North Goonyella Tee – Stoney Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD	Lightning	INDJI
65203	31/10/2018 1940	31/10/2018 2145hrs	65216	Moranbah Goonyella 7369 and 7370 132 kV lines	QLD	Lightning	INDJI
62656	2/05/2018 1720hrs	3/05/2018 1700hrs	62695	Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM
62657	2/05/2018 1720hrs	4/06/2018 0530hrs	62702	Para – Templers West and TIPS A – Magill 275 kV lines	SA	Other	BOM
62696	4/05/2018 0055hrs	4/05/2018 0525hrs	62701	Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM
62780	10/05/2018 0825hrs	11/05/2018 0045hrs	62797	Para – Templers West and TIPS A – Magill 275 kV lines	SA	Other	BOM
62916	23/05/2018 1530hrs	27/05/2018 1115hrs	62953	Loss of Pelican Point GT 12 with any other generating unit	SA	Lightning	Event Occurred
62972	28/05/2018 1440hrs	29/05/2018 0540hrs	63008	Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM
62976	28/05/2018 2020hrs	28/05/2018 2355hrs	62979	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM
63178	11/06/2018 1805hrs	11/06/2018 2335hrs	63180	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM
63179	11/06/2018 1805hrs	12/06/2018 0315hrs	63181	Para – Templers West and TIPS A – Magill 275 kV lines	SA	Other	BOM

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
63189	13/06/2018 1715hrs	13/06/2018 1805hrs	63192	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM
63190	13/06/2018 1720hrs	13/06/2018 1805hrs	63193	Para – Templers West and TIPS A – Magill 275 kV lines	SA	Other	BOM
63202	14/06/2018 0705hrs	14/06/2018 2040hrs	63214	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Lightning	BOM
63203	14/06/2018 0705hrs	14/06/2018 2040hrs	63215	Para – Templers West and TIPS A – Magill 275 kV lines	SA	Other	BOM
63236	16/06/2018 1610hrs	16/06/2018 2010hrs	63238	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM
63237	16/06/2018 1610hrs	16/06/2018 2010hrs	63239	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM
63258	22/06/2018 0935hrs	29/06/2018 1540hrs	63290	Loss of Pelican Point GT 11 with any other generating unit	SA	Other	Event Occurred
63344	4/07/2018 0135hrs	4/07/2018 0820hrs	63348	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM Severe Weather warning
63367	5/07/2018 1450hrs	6/07/2018 1155hrs	63378	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning
63390	6/07/2018 1920hrs	7/07/2018 1230hrs	63399	Para –Templers West and the Magill – Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning
63391	6/07/2018 1920hrs	7/07/2018 1040hrs	63398	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM severe weather warning
63487	17/07/2018 0155hrs	17/07/2018 1730hrs	63500	Para –Templers West and the Magill – Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning
63488	17/07/2018 0210hrs	17/07/2018 1730hrs	63499	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM severe weather warning
63565	23/07/2018 1145hrs	24/07/2018 0545hrs	63578	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
63566	23/07/2018 1145hrs	24/07/2018 0545hrs	63577	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM severe weather warning
63579	24/07/2018 0740hrs	24/07/2018 1655hrs	63584	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning
63649	30/07/2018 1540hrs	31/07/2018 0005hrs	63657	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning
63698	1/08/2018 2350hrs	10/08/2018 1530hrs	63835	Trip of Mount Gambier No.2 132/33 kV transformer due to a fault on the local 132 kV network	SA	Other	Event Occurred
63701	2/08/2018 0720hrs	2/08/2018 1735hrs	63705	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning
63702	2/08/2018 0725hrs	2/08/2018 1735hrs	63706	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM severe weather warning
63786	7/08/2018 1820hrs	8/08/2018 0555hrs	63791	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning
63822	9/08/2018 1800hrs	10/08/2018 1625hrs	63836	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM severe weather warning
63823	9/08/2018 1800hrs	10/08/2018 1625hrs	63837	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning
63882	14/08/2018 2340hrs	15/08/2018 1100hrs	63912	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning
63943	18/08/2018 0540hrs	18/08/2018 1110hrs	63944	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning
63973	22/08/2018 0920hrs	22/08/2018 1700hrs	63978	South East No. 2 275/132 kV Transformer and both the South East No.1 and No.2 275 kV SVCs	SA	Other	TNSP

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
64045	30/08/2018 1300hrs	30/08/2018 1440hrs	64047	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM severe weather warning
64046	30/08/2018 1300hrs	30/08/2018 1440hrs	64048	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning
64176	11/09/2018 0540hrs	11/09/2018 1850hrs	64184	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM severe weather warning
64175	11/09/2018 0545hrs	11/09/2018 1850hrs	64183	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning
64223	14/09/2018 1655hrs	15/09/2018 1810hrs	64242	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM severe weather warning
64224	14/09/2018 1655hrs	15/09/2018 1810hrs	64243	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM severe weather warning
64877	14/10/2018 1640hrs	14/10/2018 1800hrs	64878	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM
64891	14/10/2018 2305hrs	15/10/2018 1450hrs	64901	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM
64892	14/10/2018 2305hrs	15/10/2018 1450hrs	64902	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM
65015	19/10/2018 0705hrs	19/10/2018 1250hrs	65034	Brinkworth – Davenport, Brinkworth – Templers West and Para – Templers West 275 kV lines	SA	Other	BOM
65017	19/10/2018 1250hrs	19/10/2018 1750hrs	65035	Para – Templers West and Magill – Torrens Island A 275 kV lines	SA	Other	BOM
62703	4/05/2018 0555hrs	4/05/2018 0730hrs	62704	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
62713	4/05/2018 2100hrs	4/05/2018 2205hrs	62714	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
62793	10/05/2018 2010hrs	11/05/2018 0110hrs	62798	Chapel St – Liapootah No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
62794	10/05/2018 2135hrs	11/05/2018 0035hrs	62795	Tungatinah – New Norfolk tee Meadowbank No. 1 and No. 2 110 kV lines	TAS	Lightning	INDJI
62799	11/05/2018 0240hrs	11/05/2018 0445hrs	62802	Chapel St – Liapootah No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
62800	11/05/2018 0240hrs	11/06/2018 0445hrs	62801	Tungatinah – New Norfolk tee Meadowbank No. 1 and No. 2 110 kV lines	TAS	Lightning	INDJI
62803	11/05/2018 0545hrs	11/05/2018 0645hrs	62804	Norwood–Scottsdale–Derby 110 kV line and Norwood–Scottsdale 110 kV line	TAS	Lightning	INDJI
63025	30/05/2018 1535hrs	30/05/2018 1640hrs	63043	Farrell – Sheffield No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63031	30/05/2018 1600hrs	30/05/2018 1830hrs	63044	Norwood – Scottsdale – Derby 110 kV line and Norwood – Scottsdale 110 kV line	TAS	Lightning	INDJI
63216	14/06/2018 2145hrs	15/06/2018 0225hrs	63217	Farrell – Sheffield No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63218	15/06/2018 0225hrs	15/06/2018 0325hrs	63219	Norwood – Scottsdale – Derby 110 kV line and Norwood – Scottsdale 110 kV line	TAS	Lightning	INDJI
63369	6/07/2018 0020hrs	6/07/2018 0125hrs	63371	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63370	6/07/2018 0020hrs	6/08/2018 0125hrs	63372	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63373	6/07/2018 0600hrs	6/07/2018 0700hrs	63375	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63374	6/07/2018 0605hrs	6/07/2018 0805hrs	63376	Norwood–Scottsdale–Derby 110 kV line and Norwood–Scottsdale 110 kV line	TAS	Lightning	INDJI
63377	6/07/2018 1100hrs	6/07/2018 1205hrs	63380	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63386	6/07/2018 1435hrs	6/07/2018 1540hrs	63388	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63392	7/07/2018 0340hrs	7/07/2018 0445hrs	63393	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63498	17/07/2018 1635hrs	17/07/2018 1740hrs	63501	Norwood – Scottsdale – Derby 110 kV line and Norwood – Scottsdale 110 kV line	TAS	Lightning	INDJI
63503	18/07/2018 0140hrs	18/07/2018 0210hrs	63504	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63515	18/07/2018 1730hrs	18/07/2018 1935hrs	63516	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63517	19/07/2018 0035hrs	19/07/2018 0335hrs	63520	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63518	19/07/2018 0125hrs	19/07/2018 0325hrs	63519	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63523	19/07/2018 1105hrs	19/07/2018 1205hrs	63524	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63526	19/07/2018 1420hrs	19/07/2018 1620hrs	63530	Farrell – Sheffield No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
63527	19/07/2018 1425hrs	19/07/2018 1620hrs	63529	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63528	19/07/2018 1425hrs	19/07/2018 1620hrs	63531	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63542	20/07/2018 0730hrs	20/07/2018 0830hrs	63543	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63581	24/07/2018 1405hrs	24/07/2018 1505hrs	63582	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63583	24/07/2018 1625hrs	24/07/2018 1725hrs	63585	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63586	24/07/2018 1735hrs	24/07/2018 1835hrs	63587	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63588	24/07/2018 1855hrs	24/07/2018 2055hrs	63590	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63677	31/07/2018 1340hrs	31/07/2018 1505hrs	63679	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63680	31/07/2018 1540hrs	31/07/2018 1650hrs	63684	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63681	31/07/2018 1540hrs	31/07/2018 1645hrs	63683	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63682	31/07/2018 1550hrs	31/07/2018 1655hrs	63685	Farrell – Sheffield No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63761	6/08/2018 0610hrs	6/08/2018 0915hrs	63765	Norwood – Scottsdale – Derby 110 kV line and Norwood – Scottsdale 110 kV line	TAS	Lightning	INDJI
63885	15/08/2018 0520hrs	15/08/2018 0620hrs	63887	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63888	15/08/2018 0630hrs	15/08/2018 1030hrs	63910	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63889	15/08/2018 0645hrs	15/08/2018 0845hrs	63894	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63895	15/08/2018 0920hrs	15/08/2018 1220hrs	69316	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63896	15/08/2018 0920hrs	15/08/2018 1150hrs	63914	Farrell – Sheffield No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63909	15/08/2018 1010hrs	15/08/2018 1210hrs	63915	Norwood – Scottsdale – Derby 110 kV line and Norwood – Scottsdale 110 kV line	TAS	Lightning	INDJI
63917	15/08/2018 1040hrs	15/08/2018 1140hrs	63913	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
63917	15/08/2018 1335hrs	15/08/2018 2105hrs	63924	Farrell – Sheffield No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63918	15/08/2018 1335hrs	15/08/2018 2035hrs	63922	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
63919	15/08/2018 1335hrs	15/08/2018 2055hrs	63922	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
63941	18/08/2018 0350hrs	18/08/2018 0450hrs	63942	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
64186	11/09/2018 2100hrs	11/09/2018 2200hrs	64187	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
64226	15/09/2018 0250hrs	15/09/2018 0345hrs	64231	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
64227	15/09/2018 0250hrs	15/09/2018 0345hrs	64232	Farrell – Sheffield No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
64228	15/09/2018 0250hrs	15/09/2018 0345hrs	64233	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
64238	15/09/2018 1630hrs	15/09/2018 1900hrs	64246	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
64239	15/09/2018 1630hrs	15/09/2018 1900hrs	64247	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
64240	15/09/2018 1630hrs	15/09/2018 1900hrs	64248	Farrell – Sheffield No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
64289	18/09/2018 1200hrs	18/09/2018 1405hrs	64296	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
64290	18/09/2018 1200hrs	18/09/2018 1305hrs	64293	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
64304	19/09/2018 1430hrs	19/09/2018 1630hrs	64308	Norwood – Scottsdale – Derby 110 kV line and Norwood – Scottsdale 110 kV line	TAS	Lightning	INDJI
64967	18/10/2018 1220hrs	18/10/2018 1320hrs	64973	Farrell Reece No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
64968	18/10/2018 1220hrs	18/10/2018 1320hrs	64974	Farrell – Sheffield No. 1 and No. 2 220 kV lines	TAS	Lightning	INDJI
64969	18/10/2018 1225hrs	18/10/2018 1320hrs	64975	Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS	Lightning	INDJI
62995	29/05/2018 0300hrs	3/06/2018 1745hrs	63057	Rowville to Templestowe 220 kV line at the Templestowe end only	VIC	Other	Event Occurred
63009	29/05/2018 1015hrs	29/05/2018 1115hrs	63013	Glenrowan – Dederang No. 1 and No. 3 220 kV lines	VIC	Lightning	INDJI
63201	14/06/2018 0320hrs	19/06/2018 1450hrs	63247	Loss of Alcoa Portland (APD) Potline 1 and Potline 2	VIC	Other	Event Occurred

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
63532	19/07/2018 1800hrs	19/07/2018 1900hrs	63533	Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC	Lightning	INDJI
63535	19/07/2018 2120hrs	20/07/2018 0020hrs	63537	Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC	Lightning	INDJI
63538	20/07/2018 0055hrs	20/07/2018 0255hrs	63540	Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC	Lightning	INDJI
63539	20/07/2018 0055hrs	20/07/2018 0255hrs	63541	Glenrowan – Dederang No. 1 and No. 3 220 kV lines	VIC	Lightning	INDJI
63847	11/08/2018 1710hrs	11/08/2018 2015hrs	63853	Glenrowan – Dederang No. 1 and No. 3 220 kV lines	VIC	Lightning	INDJI
63848	11/08/2018 1800hrs	11/08/2018 1900hrs	63852	Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC	Lightning	INDJI
63854	11/08/2018 2120hrs	11/08/2018 2220hrs	63856	Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC	Lightning	INDJI
63855	11/08/2018 2120hrs	11/08/2018 2220hrs	63857	Glenrowan – Dederang No. 1 and No. 3 220 kV lines	VIC	Lightning	INDJI
63946	18/08/2018 1510hrs	18/08/2018 1945hrs	63949	Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC	Lightning	INDJI
63948	18/08/2018 1745hrs	18/08/2018 1945hrs	63950	Glenrowan – Dederang No. 1 and No. 3 220 kV lines	VIC	Lightning	INDJI
64104	6/09/2018 1610hrs	6/09/2018 2010hrs	64109	Glenrowan – Dederang No. 1 and No. 3 220 kV lines	VIC	Lightning	INDJI
64106	6/09/2018 1740hrs	6/09/2018 1910hrs	64108	Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC	Lightning	INDJI
64110	6/09/2018 2110hrs	6/09/2018 2210hrs	64112	Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC	Lightning	INDJI
64111	6/09/2018 2110hrs	6/09/2018 2210hrs	64113	Glenrowan – Dederang No. 1 and No. 3 220 kV lines	VIC	Lightning	INDJI
64114	7/09/2018 0005hrs	7/09/2018 0110hrs	64115	Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC	Lightning	INDJI
64116	7/09/2018 0320hrs	7/09/2018 0420hrs	64117	Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC	Lightning	INDJI
64235	15/09/2018 1405hrs	15/09/2018 1510hrs	64237	Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC	Lightning	INDJI
64710	4/10/2018 1700hrs	4/10/2018 1800hrs	64711	Glenrowan – Dederang No. 1 and No. 3 220 kV lines	VIC	Lightning	INDJI
64936	17/10/2018 1430hrs	17/10/2018 1535hrs	64939	Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC	Lightning	INDJI
65036	20/10/2018 0835hrs	20/10/2018 1035hrs	65038	Glenrowan – Dederang No. 1 and No. 3 220 kV lines	VIC	Lightning	INDJI
65037	20/10/2018 0910hrs	20/11/2018 1110hrs	65039	Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC	Lightning	INDJI
65040	20/10/2018 1145hrs	20/11/2018 1345hrs	65042	Glenrowan – Dederang No. 1 and No. 3 220 kV lines	VIC	Lightning	INDJI
65041	20/10/2018 1150hrs	20/11/2018 1350hrs	65043	Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC	Lightning	INDJI

A2. Number of reclassification events on each element, 1 May 2018 to 31 October 2018

Table 3 Number of times reclassification events occurred on each element, 1 May 2018 to 31 October 2018

Element	Region	Number of times reclassified			
		Bushfires	Lightning	Other	Total
Coffs Harbour to Lismore (89) 330 kV line and the Koolkhan to Lismore (967) 132 kV line	NSW	1			1
Bulli Creek – Dumaresq 8L and 8M 330 kV line	NSW/QLD		23	1	24
7306 Collinsville – Stony Ck and Collinsville – Newlands 132 kV lines	QLD		7		7
Bouldercombe – Rockhampton No. 7108 and Bouldercombe – Egans Hill No. 7221 132 kV lines	QLD		14		14
Chalumbin – Turkinjie No. 7165 and No. 7166 132 kV lines	QLD		5		5
Chalumbin – Walkamin No.876 and Chalumbin – Woree No.877 275 kV lines	QLD	1			1
Chinchilla – Columboola No. 7349 and No. 7350 132 kV lines	QLD		20		20
Collinsville – Mackay tee Proserpine 7125 and 7126 132 kV lines	QLD		4		4
Goonyella – North Goonyella Tee – Stony Creek No. 7122 and the Goonyella – Newlands No. 7155 132 kV lines	QLD		14		14
Moranbah Goonyella 7369 and 7370 132 kV lines	QLD		10		10
Ross to Chalumbin 857 & 858 275 kV transmission lines	QLD	4	11		15
Tarong – Chinchilla 7183 and 7168 132 kV lines	QLD		30		30
Trip of Unit 3 Stanwell Power station and any one of the individual 275 kV transmission lines connected to H29 Stanwell	QLD			1	1
Trip of Strathmore No.1 and No. 2 132 kV buses	QLD			1	1

Element	Region	Number of times reclassified			
		Bushfires	Lightning	Other	Total
Brinkworth – Templers West and Para –Templers West 275 kV lines	SA			3	3
Brinkworth–Davenport, Brinkworth–Templers West and Para–Templers West 275 kV lines	SA		1	15	16
Loss of Pelican Point GT 11 with any other generating unit	SA			1	1
Loss of Pelican Point GT 12 with any other generating unit	SA			1	1
Para – Templers West and TIPS A – Magill 275 kV lines	SA			5	5
Para –Templers West and the Magill – Torrens Island A 275 kV lines	SA			2	2
Para–Templers West and Magill–Torrens Island A 275 kV lines	SA			16	16
South East No. 2 275/132 kV Transformer and both the South East No.1 and No.2 275 kV SVCs	SA			1	1
Trip of Mount Gambier No.2 132/33 kV transformer due to a fault on the local 132 kV network	SA			1	1
Chapel St – Liapootah No. 1 and No. 2 220 kV lines	TAS		2		2
Farrell – John Butters 220 kV line & Farrell – Rosebery Tee Queenstown – Newton 110 kV line	TAS		22		22
Farrell – Sheffield No. 1 and No. 2 220 kV lines	TAS		9		9
Farrell Reece No. 1 and No. 2 220 kV lines	TAS		18		18
Norwood–Scottsdale–Derby 110 kV line and Norwood–Scottsdale 110 kV line	TAS		8		8
Tungatinah – New Norfolk tee Meadowbank No. 1 and No. 2 110 kV lines	TAS		2		2
Eildon – Mt Beauty No. 1 and No. 2 220 kV lines	VIC		14		14
Glenrowan – Dederang No. 1 and No. 3 220 kV lines	VIC		10		10
Loss of Alcoa Portland (APD) Potline 1 and Potline 2	VIC			1	1
Rowville to Templestowe 220 kV line at the Templestowe end only	VIC			1	1

A3. Non-credible contingency events, 1 May 2018 to 31 October 2018

Table 4 Non-credible contingency events, 1 May 2018 to 31 October 2018

Date of contingency	Description	Region	Primary Cause	Was the contingency then reclassified?	Comments
23/04/2018 1555 hrs	Trip of Loy Yang A3 and Pelican Point GT 12 and ST 18.	SA	Protection and Control	Yes	AEMO reclassified the event as a credible contingency for the loss of Pelican Point GT12 with any other generating unit on 23/05/2018 when Pelican units returned to service. AEMO considered the event was likely to reoccur until the issue was addressed. Engie advised that the cause of the trip was related to control system software issue. AEMO cancelled the reclassification on 27/05/2018 when the control system issue was rectified.
3/05/2018 2348 hrs	Trip of Woree No.2 275/132 kV transformer 132 kV CB and offloaded Woree – Chalumbin 876 275 kV line	QLD	Protection and Control	No	Powerlink confirmed the trip was due to a faulty protection relay on the transformer. AEMO did not reclassify the event as the fault was rectified and unlikely to reoccur.
9/05/2018 1017 hrs	Trip of the 330 kV 'A' busbar while performing planned maintenance on the Capital Wind Farm 33 kV busbar protection.	NSW	Human Error	No	TransGrid advised that the cause of trip was inadvertent trip signal being sent by staff working on Capital Wind Farm 330 kV C bus. TransGrid advised that the incident was unlikely to reoccur.
14/05/2018 1204 hrs	Trip of two Tomago potlines	NSW	Human Error	No	The trip was due to operator error. AEMO did not reclassify the contingency as the cause was identified and unlikely to reoccur.
22/05/2018 1001 hrs	Trip of Ross 275/132 kV No.2, 3, 4 Transformers and SVC.	QLD	Transmission Equipment Failure	No	Powerlink advised the trip was caused by a voltage transient on the 125V DC system due to wiring error in the circuitry. AEMO did not reclassify the event as the cause was identified and unlikely to reoccur.
26/05/2018 0933 hrs	Trip of Strathmore No.1 and 2 132 kV buses.	QLD	Protection and Control	Yes	AEMO reclassified the trip of Strathmore 1 and 2 132 kV buses a credible contingency as the cause was not known when Strathmore buses returned to service. Powerlink advised that a fault occurred at Hamilton Solar, and two buses tripped due to incorrect wiring of the bus protection CT. AEMO cancelled the reclassification on the same day as the cause was identified and rectified.

Date of contingency	Description	Region	Primary Cause	Was the contingency then reclassified?	Comments
28/05/2018 2221 hrs	Trip of Rowville – Templestowe 220 kV line at the Templestowe end only.	VIC	Protection and Control	Yes	AusNet advised the trip was due to inadvertent trip of the X protection however the cause was not determined when the protection was returned to service on 29/05/2018. AEMO reclassified the trip of the Rowville – Templestowe 220 kV line at the Templestowe end only as a credible event. The reclassification was cancelled on 03/06/2018 when the protection relay was replaced.
14/06/2018 0126 hrs	Trip of APD Potline 1 and Potline 2.	VIC	Protection and Control	Yes	APD informed AEMO the cause was due to a 22 kV feeder fault. AEMO reclassified the loss of two potlines as a credible contingency as it was uncertain that a reoccurrence of the event was not reasonably possible. AEMO cancelled the reclassification when the issue was rectified on 19/06/2018.
14/06/2018 0806 hrs	Trip of Wurdong No.1 275 kV busbar	QLD	Human Error	No	Powerlink advised the trip was due to insufficient isolation of protection systems during planned systems upgrade work. AEMO was satisfied that the cause had been identified and the incident was unlikely to reoccur.
21/06/2018 1718 hrs	Trip of 996 Wagga 330 – ANM tee Morven 132 kV line at the Wagga end only.	NSW	Protection and Control	No	TransGrid advised the cause was a faulty relay at Wagga which was planned to be replaced on 22/06/2018. AEMO did not reclassify this event as TransGrid advised that the event was unlikely to reoccur.
22/06/2018 0959 hrs	Trip of Pelican Point GT11, ST18, and reduced output of GT12.	SA	Protection and Control	Yes	On 17/03/2018 Pelican Point GT11 and ST18 tripped 38 seconds after Loy Yang tripped. On 22/06/2018 when GT11 returned for testing, AEMO reclassified the trip of Pelican Point GT11 and ST18 simultaneous with the trip of any other generating unit as credible as insufficient information was provided to confirm it would not reoccur for a similar power system event. During testing, GT11 tripped, and five minutes later ST18 tripped, and GT12 reduced in output. The trip of GT11 was related to bearing issue, and ST tripped due to condenser issue. AEMO later cancelled the reclassification on 29/06/2018 when the unit proved the fault ride through issue was resolved.
2/07/2018 0755 hrs	Trip of Calliope River – Gin Gin (814) 275 kV line.	QLD	Protection and Control	No	Powerlink advised the trip was due to faulty protection operation during a planned switching of Larcom Creek – Calliope River 8859 275 kV line. The faulty protection was replaced and 814 line returned to service. AEMO did not reclassify the incident as the cause had been identified and rectified.
13/07/2018 1633 hrs	Trip of Woree No.1 132 kV bus.	QLD	Protection and Control	No	Powerlink advised the trip was due to faulty bus protection relay operation. AEMO did not reclassify the incident as the cause had been identified and unlikely to reoccur.
31/07/2018 1337 hrs	Trip of Nebo – Strathmore No. 878 and No. 8845 275 kV lines.	QLD	Human Error	No	The cause of trip was attributed to an earth wire on the 7125 line contacting conductors on the 878 and 8845 lines during planned work. AEMO did not reclassify the incident as the cause had been identified.

Date of contingency	Description	Region	Primary Cause	Was the contingency then reclassified?	Comments
1/08/2018 1758 hrs	Simultaneous trip of Snuggery No.3 132/33 kV transformer and the Mount Gambier No.2 132/33 kV transformer. The trip of the Mount Gambier No.2 132/33 kV transformer offloaded the South East – Mount Gambier 132 kV line.	SA	Protection and Control	Yes	ElectraNet advised that the trip of Snuggery No. 3 transformer was due to a failed bushing. Mount Gambier transformer tripped due to Restrictive Earth Fault operated, and the Protection may not be stable. AEMO reclassified the trip of Mount Gambier No.2 132/33 kV transformer and another network element in the local 132 kV network as a credible contingency event as the cause of protection tripping was unknown. AEMO cancelled the reclassification on 10/08/2018 when the protection setting on the Mount Gambier No. 2 132/33 kV had been rectified. AEMO later identified that the event should not have been reclassified as Mount Gambier transformer and another network element in the local 132 kV network are not classified as transmission element.
21/08/2018 0419 hrs	Trip of Calvale – Stanwell 855 275 kV line and Stanwell PS Unit 3.	QLD	Protection and Control	Yes	Stanwell advised the trip of Unit 3 was due to incorrect setting of Power Load Unbalance relay. The setting was updated later and Unit tested. AEMO cancelled the reclassification on 10/09/2018.
25/08/2018 1312 hrs	Trip of Bulli Creek – Dumaresq 8L and 8M kV lines and separation of QLD and SA from the rest of the NEM.	NSW/QLD	Lightning	Yes	AEMO reclassified the trip of Bulli Creek – Dumaresq 1 and 2 lines as a credible contingency as the cause was not known. Powerlink confirmed that the cause was lightning strike to transmission infrastructure impacting two lines. AEMO cancelled the reclassification on the same day as the cause was identified. Reclassification decisions before and after the event were appropriate and consistent with the relevant reclassification criteria.
2/09/2018 1144 hrs	Trip of Calvale – Gladstone Sth (7104) and Calvale – Gladstone Sth (7105) feeders.	QLD	Bushfire	No	Powerlink advised undetected grass fire went through easement. There was no hotspot detected by INDJI. The hotspot was reported by INDJI after the event occurred. AEMO had no justification to reclassify the loss of the two feeders as a credible contingency. These feeders were normally offloaded at Gladstone South ends. The cause of this non-credible contingency event had been identified and AEMO was satisfied that another occurrence of this event was unlikely.
23/09/2018 1618 hrs	Trip of NEBO No.1 275 kV bus.	QLD	Human Error	No	Powerlink advised the bus trip was caused by insufficient isolation of protection systems on Nebo – Broadsound (8846) 275 kV line during planned work. Powerlink had identified the issue and advised the event was unlikely to reoccur again.
9/10/2018 0647 hrs	Trip of the APD No.3 500 kV bus.	VIC	Protection and Control	No	APD advised the trip was caused by a mal operation of the protection on the APD A4 500/220 kV transformer. AEMO did not reclassify the event when the protection on APD A4 was rectified and return to service on the same day.
23/10/2018 0618 hrs	Trip of the Stanwell – Broadsound No. 8831 275 kV line at Broadsound end only.	QLD	Transmission Equipment Failure	No	Powerlink advised the cause of the trip was due to faulty RTU controller card. AEMO did not reclassify the incident as the cause had been identified and rectified.

Date of contingency	Description	Region	Primary Cause	Was the contingency then reclassified?	Comments
24/10/2018 1151 hrs	Trip of the Bouldercombe – Rockhampton (7107 and 7108) 132 kV lines.	QLD	Human Error	No	Powerlink advised the trip of 7107 & 7108 was caused by Ergon personnel working on a secondary control system (Ergon equipment). Powerlink advise that the trip of 7107 & 7108 was unlikely to reoccur. AEMO did not reclassify the event.

A4. Market impact of reclassification constraints, 1 May 2018 to 31 October 2018

Table 5 Reclassification constraints that bound, 1 May 2018 to 31 October 2018

Reclassification start time	Reclassification end time	Reclassified equipment	Constraint	Number of Dispatch Intervals binding
4/05/2018 0555 hrs	4/05/2018 0730 hrs	Farrell Reece No. 1 and No. 2 220 kV lines	F_T+FARE_N-2_RREG	4
23/05/2018 1530 hrs	27/05/2018 1115 hrs	Loss of Pelican Point GT 12 with any other generating unit	F_MAIN+NIL_MG_R6_PP	808
			F_MAIN+NIL_MG_R5_PP	847
			F_MAIN+NIL_MG_R6_PP	831
			N^^V_NIL_MAXG_PP_N-2	41
30/05/2018 1535 hrs	30/05/2018 1640 hrs	Farrell – Sheffield No. 1 and No. 2 220 kV lines	F_T+FASH_N-2_TG_R6_2	5
			F_T+FASH_N-2_TG_R6_1	12
			F_T+FASH_N-2_TG_R6_4	1
			F_T+FASH_N-2_RREG	13
			F_T+FASH_N-2_TG_R5	9

Reclassification start time	Reclassification end time	Reclassified equipment	Constraint	Number of Dispatch Intervals binding
			F_T+FASH_N-2_TG_R60	6
			F_T+FASH_N-2_TG_R6_3	1
			T>T_FASH_1_N-2	1
14/06/2018 2145 hrs	15/06/2018 0225 hrs	Farrell – Sheffield No. 1 and No. 2 220 kV lines	F_T++FASH_N-2_TG_R6	16
			F_T+FASH_N-2_RREG	9
			F_T++FASH_N-2_TG_R60	17
			F_T++FASH_N-2_TG_R5	13
22/06/2018 0935 hrs	29/06/2018 1540 hrs	Loss of Pelican Point GT 11 with any other generating unit	F_I+NIL_MG_R5_PPN2	1078
			F_I+NIL_MG_R60_PPN2	697
			F_I+NIL_MG_R6_PPN2	714
			F_MAIN++NIL_MG_R60_P	979
			F_MAIN++NIL_MG_R6_PP	989
			F_MAIN++NIL_MG_R5_PP	795
			N^^V_NIL_MAXG_PP_N-2	321
			F_MAIN+NIL_MG_R6_PP	68
			F_MAIN+NIL_MG_R5_PP	68
			F_MAIN+NIL_MG_R60_PP	68
19/07/2018 1105 hrs	19/07/2018 1205 hrs	Farrell Reece No. 1 and No. 2 220 kV lines	F_T++FARE_N-2_TG_R6	4
31/07/2018 1550 hrs	31/07/2018 1655 hrs	Farrell – Sheffield No. 1 and No. 2 220 kV lines	T>T_FASH_1_N-2	4
15/08/2018 0630 hrs	15/08/2018 1030 hrs	Farrell Reece No. 1 and No. 2 220 kV lines	F_T++FARE_N-2_TG_R5	1
15/08/2018 0920 hrs	15/08/2018 1150 hrs	Farrell – Sheffield No. 1 and No. 2 220 kV lines	F_T+FASH_N-2_RREG	1
			F_T++FASH_N-2_TG_R5	1
			T>T_FASH_1_N-2	20
			F_T++FASH_N-2_TG_R60	1
15/08/2018 1335 hrs	15/08/2018 2105 hrs	Farrell – Sheffield No. 1 and No. 2 220 kV lines	T>T_FASH_1_N-2	11
15/09/2018 0250 hrs	15/09/2018 0345 hrs	Farrell – Sheffield No. 1 and No. 2 220 kV lines	F_T+FASH_N-2_RREG	11
15/09/2018 1630 hrs	15/09/2018 1900 hrs	Farrell – Sheffield No. 1 and No. 2 220 kV lines	F_T+FASH_N-2_RREG	18

Reclassification start time	Reclassification end time	Reclassified equipment	Constraint	Number of Dispatch Intervals binding
			T>T_FASH_1_N-2	19
18/10/2018 1220 hrs	18/10/2018 1320 hrs	Farrell – Sheffield No. 1 and No. 2 220 kV lines	F_T+FASH_N-2_RREG	1