

# REVIEW OF POWER SYSTEM RECLASSIFICATION EVENTS 1 NOVEMBER 2013 to 30 APRIL 2014

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FINAL

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## 1 Executive Summary

The power system is operated such that the loss of single elements in the transmission network such as transmission lines or transformers or the loss of single generating units (known as “credible contingency events”) can be accommodated without causing further problems and thus avoiding a cascade failure. This is known as a “secure operating state”.

It cannot be guaranteed that at all times the power system will withstand the simultaneous loss of multiple transmission elements or generating units or loss of more secure elements such as busbars (known as “non-credible contingency events”).

However under abnormal conditions where the likelihood of multiple failures is increased then AEMO will may temporarily adjust the operation of the power system so that it can withstand the loss of certain multiple elements which are at that time under a known threat. This process is termed “reclassification of a contingency event”. Abnormal conditions are conditions posing added risks to the power system, including without limitation, severe weather conditions, lightning, storms and bushfires.

Examples of such reclassifications might be a reclassification of the loss of both circuits of a double circuit transmission line in the presence of lightning or loss of two transmission circuits in a common easement under threat from bushfires.

Rule 4.2.3B was introduced into the National Electricity Rules on the 23 October 2008 to ensure that such reclassification processes are undertaken in a methodical and organised manner.

This Rule requires AEMO to establish criteria that it must use when considering whether the existence of *abnormal conditions* makes the occurrence of a *non-credible contingency event* reasonably possible under NER clause 4.2.3A (e).

The decision making processes have been designed with a view to providing effective actions on a practical basis. This improves the efficiency of criteria assessment and decision delivery. For instance, to be effective any decision making process regarding reclassification needs to be capable of being made within about 15 minutes of the receipt and assessment of information.

National Electricity Rule 4.2.3 A (i) requires AEMO to issue a report at intervals of six months setting out the reasons for all decisions to reclassify *non-credible contingency events* to be *credible contingency events* under clause 4.2.3A (g) during the relevant period.

The report:

1. must include an explanation of how AEMO applied the criteria established in accordance with 4.2.3B for each of those decisions; and
2. may also include AEMO’s analysis of re-classification trends during the relevant period and its appraisal of the appropriateness and effectiveness of the relevant criteria that were applied in the case of each reclassification decision.

This report provides compliance with the above rule requirements.

## 2 References

National Electricity Rules (NER).

## 3 Definitions

GPATS: Global Positioning and Tracking System. This is a Lightning Detection System used by AEMO Operations.

INDJI: (Indji Watch): used by AEMO Operations : is an internet based system that monitors live information feeds on hazards such as bushfires and compares them with locations of transmission assets.

## 4 Development of Criteria for Re-classifying Contingency Events

AEMO has established three categories of criteria required for the assessment of whether a *non-credible contingency event* is reclassified as a *credible contingency event*. They are

1. **Bushfires**
2. **Lightning** and,
3. **Other** - comprises of but not limited to;
  - the threat of disconnection of multiple generating units,
  - the impact of pollution on transmission insulators,
  - the impact of protection or control systems malfunction on plant or
  - extreme weather conditions.

Following consultation with the relevant stakeholders, the criteria for assessing reclassifications is published in the [AEMO Operating Procedure Power System Security Guidelines SO\\_OP3715](#).<sup>1</sup>

## 5 Analysis of Reclassification Events over the Reporting Period

A total of 317 reclassifications were declared over the reporting period 1 November 2013 to 30 April 2014. These reclassifications are shown in in Table 4. Of these 317 reclassifications there was only 1 event where the contingency actually occurred while it was reclassified.

In the same period there were 36 non-credible contingency events that occurred without prior reclassification. These non-credible contingency events are shown in Table 5. Of these 36 non-credible contingency events 12 were reclassified after the contingency had occurred.

Reclassifications highlighted in **red** in Table 4 correspond to a non-credible contingency event in Table 5, also highlighted in **red**, which resulted in a reclassification.

At the time of publication of this report 3 non-credible contingency events remained reclassified as credible contingency events. These events are listed in Table 6 and are likely to re-occur given similar conditions.

### 5.1 Bushfires

Reclassifications for bushfires during the period were performed on the basis of established criteria as specified in SO\_OP3715. There were 7 reclassifications due to bushfires in the reporting period, compared with 10 reclassifications in the previous period. The reduced number of reclassifications may be due to the change in criteria for bushfire reclassification events. The contingency did not actually occur during any of these 7 reclassifications. None of the non-credible contingency events that occurred prior to reclassification, as listed in Table 5 were initiated by bushfires.

### 5.2 Lightning

Reclassifications for lightning during the period were performed on the basis of established criteria in SO\_OP3715, which lists the vulnerable transmission lines which are eligible to be reclassified as a credible contingency event if lightning activity is detected in the vicinity of the lines.

Information from the AEMO GPATS was utilised in the assessment process.

There were 297 reclassification events due to lightning in this reporting period, compared to 151 events in the previous reporting period. There were more lightning reclassification events in the

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<sup>1</sup> The criteria relating to bushfires was reviewed and updated in December 2013. Refer to AEMO Communication 1457 dated 19/12/13.

current period as this period covered the traditional lightning seasons. The contingency did not actually occur during any of these 297 lightning reclassifications. Two of the non-credible contingency events that occurred prior to reclassification, as listed in in Table 5 were initiated by lightning.

### **5.3 Other**

Under the “Other” category 13 reclassifications occurred over the reporting period. These contingency events were reclassified on the basis of the event having occurred, with a risk of re-occurrence. During one of these 13 reclassifications the contingency actually occurred, as listed in Table 7.

## 5.4 Impact of reclassification constraints

A number of reclassification constraints bound over the reporting period. Details of these constraints are provided in Table 1.

Table 1 Reclassification constraints that bound over the reporting period

Start time	End time	Reclassified equipment	Constraint	Number of Dispatch Intervals binding
21/11/2013 09:30	21/11/2013 12:30	George Town - Hadspen No. 1 and No. 2 220kV lines	T>T_GT_HA_3A_N-2	36
22/11/2013 14:15	22/11/2013 16:30	Farrell - Sheffield No. 1 and No. 2 220kV lines	T>T_FASH_1_N-2	44
22/11/2013 16:25	22/11/2013 19:50	Hadspen - Palmerston No. 1 and No. 2 220kV lines	T>T_HAGT_N-2	41
23/11/2013 11:25	23/11/2013 15:40	George Town - Hadspen No. 1 and No. 2 220kV lines	T>T_GT_HA_3A_N-2	51
23/11/2013 11:40	23/11/2013 15:15	Farrell - Sheffield No. 1 and No. 2 220kV lines	F_T++FASH_N-2_TG_R6	42
			F_T++FASH_N-2_TG_R5	42
			F_T++FASH_N-2_TG_R60	40
			F_T+FASH_N-2_RREG	66
28/11/2013 03:00	28/11/2013 05:35	Farrell - Sheffield No. 1 and No. 2 220kV lines	F_T++FASH_N-2_TG_R5	27
			F_T++FASH_N-2_TG_R60	1
			F_T++FASH_N-2_TG_R6	7
			T>T_FASH_1_N-2	2
28/11/2013 03:35	28/11/2013 07:20	Liapootah - Palmerston No. 1 and No. 2 220kV lines	T>T_NIL_LIPM_N-2_2A	35
28/11/2013 15:45	28/11/2013 17:50	Hadspen - Palmerston No. 1 and No. 2 220kV lines	T>T_HAGT_N-2	25
28/11/2013 16:30	28/11/2013 17:50	George Town - Hadspen No. 1 and No. 2 220kV lines	T>T_HAGT_N-2	16
04/12/2013 10:25	04/12/2013 11:20	George Town - Hadspen No. 1 and No. 2 220kV lines	T>T_GT_HA_3A_N-2	4
04/12/2013 10:25	04/12/2013 11:20	George Town - Sheffield No. 1 and No. 2 220kV lines	T>T_HAGT_SHGT_N-2	8

Start time	End time	Reclassified equipment	Constraint	Number of Dispatch Intervals binding
05/12/2013 11:05	05/12/2013 13:40	George Town - Sheffield No. 1 and No. 2 220kV lines	T>T_HAGT_SHGT_N-2	4
			T>T_PMHA_SHGT_N-2	2
			T>T_GTSH_220_1_N-2	27
05/12/2013 11:10	05/12/2013 13:40	Farrell - Sheffield No. 1 and No. 2 220kV lines	T_FASH_MAXGEN_1	16
			T>T_FASH_1_N-2	16
			F_T++FASH_N-2_TG_R5	8
05/12/2013 12:30	05/12/2013 13:40	George Town - Hadspen No. 1 and No. 2 220kV lines	T>T_GT_HA_3A_N-2	12
05/12/2013 13:45	05/12/2013 15:20	Hadspen - Palmerston No. 1 and No. 2 220kV lines	T>T_HAGT_N-2	16
22/12/2013 10:30	22/12/2013 12:45	Farrell - Sheffield No. 1 and No. 2 220kV lines	T>T_FASH_1_N-2	48
22/12/2013 12:00	22/12/2013 12:55	Liapootah - Palmerston No. 1 and No. 2 220kV lines	T>T_NIL_LIPM_N-2_2A	11
26/12/2013 10:50	26/12/2013 11:50	Farrell - Sheffield No. 1 and No. 2 220kV lines	T>T_FASH_1_N-2	20
17/01/2014 05:40	17/01/2014 07:00	Farrell Reece No. 1 and No. 2 220kV lines	F_T+FARE_N-2_TG_R5	18
			F_T++FARE_N-2_TG_R5	1
17/01/2014 22:30	18/01/2014 00:00	George Town - Hadspen No. 1 and No. 2 220kV lines	T>T_GT_HA_3A_N-2	13
24/01/2014 04:30	24/01/2014 06:15	George Town - Hadspen No. 1 and No. 2 220kV lines	T>T_GT_HA_3A_N-2	19
07/02/2014 10:00	07/02/2014 11:10	Liapootah - Palmerston No. 1 and No. 2 220kV lines	T>T_NIL_LIPM_N-2_2A	14
07/02/2014 10:10	07/02/2014 11:10	Hadspen - Palmerston No. 1 and No. 2 220kV lines	T>T_HAGT_N-2	12
09/02/2014 12:55	09/02/2014 16:45	Liapootah - Palmerston No. 1 and No. 2 220kV lines	T>T_NIL_LIPM_N-2_2A	43
14/02/2014 13:55	14/02/2014 17:20	Liapootah - Palmerston No. 1 and No. 2 220kV lines	T>T_NIL_LIPM_N-2_2A	22
14/02/2014 15:35	14/02/2014 17:20	Hadspen - Palmerston No. 1 and No. 2 220kV lines	T>T_HAGT_N-2	21
15/02/2014 13:35	15/02/2014 22:05	Liapootah - Palmerston No. 1 and No. 2 220kV lines	T>T_NIL_LIPM_N-2_2A	62
15/02/2014 15:30	15/02/2014 20:35	Hadspen - Palmerston No. 1 and No. 2 220kV lines	T>T_HAGT_N-2	61

Start time	End time	Reclassified equipment	Constraint	Number of Dispatch Intervals binding
15/02/2014 16:20	15/02/2014 21:40	Farrell - Sheffield No. 1 and No. 2 220kV lines	F_T++FASH_N-2_TG_R5	38
			F_T++FASH_N-2_TG_R60	31
			F_T++FASH_N-2_TG_R6	19
19/02/2014 09:20	19/02/2014 12:50	Farrell Reece No. 1 and No. 2 220kV lines	F_T++FARE_N-2_TG_R6	1
			F_T++FARE_N-2_TG_R60	1
19/02/2014 10:45	19/02/2014 13:15	Farrell - Sheffield No. 1 and No. 2 220kV lines	T_T_FASH_7_N-2	30
20/02/2014 18:30	20/02/2014 19:15	George Town - Hadspen No. 1 and No. 2 220kV lines	T>T_GT_HA_3A_N-2	9
05/03/2014 02:25	05/03/2014 05:00	George Town - Hadspen No. 1 and No. 2 220kV lines	T>T_GT_HA_3A_N-2	13
			T>T_HAGT_N-2	14
05/03/2014 03:50	05/03/2014 05:30	Hadspen - Palmerston No. 1 and No. 2 220kV lines	T>T_HAGT_N-2	20
05/03/2014 04:05	05/03/2014 05:30	Liapootah - Palmerston No. 1 and No. 2 220kV lines	T>T_NIL_LIPM_N-2_2A	13
11/03/2014 10:15	11/03/2014 11:10	Farrell - Sheffield No. 1 and No. 2 220kV lines	T_T_FASH_7_N-2	11
11/03/2014 12:55	11/03/2014 19:05	Farrell - Sheffield No. 1 and No. 2 220kV lines	T_T_FASH_7_N-2	73
11/03/2014 14:10	11/03/2014 19:05	Hadspen - Palmerston No. 1 and No. 2 220kV lines	T>T_HAGT_N-2	53
11/03/2014 14:10	11/03/2014 15:50	Liapootah - Palmerston No. 1 and No. 2 220kV lines	T>T_NIL_LIPM_N-2_2A	3
11/03/2014 14:50	11/03/2014 16:00	George Town - Hadspen No. 1 and No. 2 220kV lines	T>T_HAGT_N-2	14
11/03/2014 16:25	11/03/2014 19:05	Liapootah - Palmerston No. 1 and No. 2 220kV lines	T>T_NIL_LIPM_N-2_2A	16
11/03/2014 17:50	11/03/2014 19:05	George Town - Hadspen No. 1 and No. 2 220kV lines	T>T_GT_HA_3A_N-2	6
			T>T_HAGT_N-2	9
11/03/2014 19:45	11/03/2014 21:15	George Town - Hadspen No. 1 and No. 2 220kV lines	T>T_GT_HA_3A_N-2	2
			T>T_HAGT_N-2	17
11/03/2014 19:50	11/03/2014 21:15	Hadspen - Palmerston No. 1 and No. 2 220kV lines	T>T_HAGT_N-2	17
11/03/2014 20:45	11/03/2014 21:30	Farrell - Sheffield No. 1 and No. 2 220kV lines	T_T_FASH_7_N-2	1



<u>Start time</u>	<u>End time</u>	<u>Reclassified equipment</u>	<u>Constraint</u>	<u>Number of Dispatch Intervals binding</u>
01/04/2014 15:25	01/04/2014 17:15	Rowville Yallourn No. 5 and No. 6 220kV lines	V>V_NIL_ROYP56_R2_1	17
22/04/2014 07:00	22/04/2014 08:00	George Town - Hadspen No. 1 and No. 2 220kV lines	T>T_GT_HA_3A_N-2	3
26/04/2014 05:10	26/04/2014 07:10	Farrell - Sheffield No. 1 and No. 2 220kV lines	F_T+FASH_N-2_RREG	32
26/04/2014 06:30	26/04/2014 07:50	George Town - Hadspen No. 1 and No. 2 220kV lines	T>T_GT_HA_3A_N-2	2

## 6 Analysis Summary

AEMO has analysed the reclassification trends during the relevant reporting period and has assessed the appropriateness and effectiveness of the relevant criteria that were applied in the case of each re-classification decision. AEMO has deemed they are appropriate however a number of issues associated with the bushfire reclassification guidelines were identified resulting in an update to the guidelines in December 2013.

Analysis of the reclassifications occurring over the reporting period 1 November 2013 to 30 April 2014 is summarised in Table 2. Although the actual incidence of the event occurring is very low, generally the incidence of a normal credible contingency is also very low under similar conditions.

For the reporting period there was one incidence where the event actually occurred while it was reclassified as a credible contingency.

Table 2 Statistics for reclassifications over the reporting period 1 November 2013 to 30 April 2014

Category	Number Reclass Events	Actual incidence of contingency occurring during reclassification
Bushfires	7	0
Lightning	297	0
Other	13	1
Total for Period	317	1

Figure 1 shows the number of reclassification events per region over the reporting period 1 November 2013 to 30 April 2014.

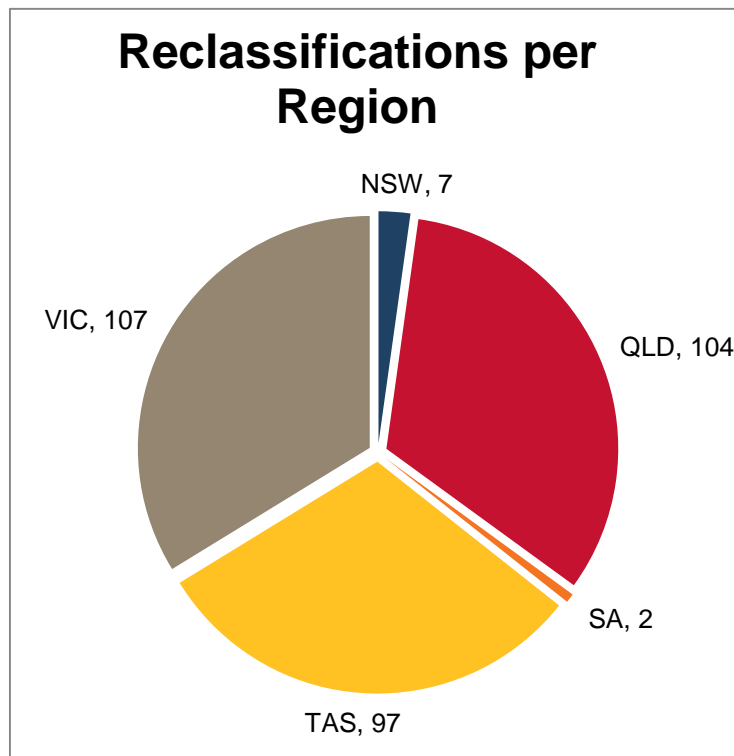


Figure 1 Reclassifications per region

Table 3 shows the historical statistics for reclassification events.

Table 3 Historical statistics for reclassifications

Reporting Period	Bushfires		Lightning		Other								Auxiliary supply outage		Totals for Period				
	Reclass Events	Actual Incidence	Reclass Events	Actual Incidence	Unknown		Protection		Pollution		Weather conditions		Station configuration		Reclass Events	Actual Incidence	Reclass Events	Actual Incidence	
23/10/08 to 23/04/09	6	2	96	1	0	0	1	0	0	0	0	0	0	0	0	0	0	103	3
24/04/09 to 23/10/09	1	0	83	0	0	0	4	0	2	0	0	0	0	0	0	0	0	90	0
24/10/09 to 30/04/10	2	0	256	1	0	0	2	0	0	0	1	0	0	0	0	0	0	261	1
01/05/10 to 30/10/10	0	0	46	1	0	0	1	1	0	0	0	0	1	0	1	0	49	2	
01/11/10 to 30/04/11	0	0	278	8	1	0	6	0	0	0	3	0	0	0	0	0	288	8	
01/05/11 to 31/10/11	2	0	81	0	1	0	2	0	0	0	0	0	0	0	1	0	87	0	
01/11/11 to 30/04/12	0	0	299	2	7	3	0	0	0	0	0	0	0	0	0	0	306	5	
01/05/12 to 31/10/12	3	0	79	0	3	0	1	0	0	0	0	0	3	0	0	0	89	0	
01/11/12 to 30/04/13	13	0	260	0	6	0	3	0	0	0	1	0	0	0	1	0	284	0	
01/05/13 to 31/10/13	10	0	151	2	1	0	5	0	0	0	4	0	3	1	0	0	174	3	
01/11/13 to 30/04/14	7	0	297	0	2	0	4	1	0	0	3	0	4	0	0	0	317	1	
<b>Totals</b>	<b>44</b>	<b>2</b>	<b>1926</b>	<b>15</b>	<b>21</b>	<b>3</b>	<b>29</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>2048</b>	<b>23</b>	

## 7 Reclassification Events

Table 4 Reclassification events from 1 November 2013 to 30 April 2013

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
43758	01/11/2013 11:25	01/11/2013 12:30	43759	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
43760	01/11/2013 13:00	01/11/2013 15:00	43762	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
43761	01/11/2013 13:00	01/11/2013 15:00	43763	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
43764	01/11/2013 15:10	01/11/2013 17:10	43768	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
43766	01/11/2013 16:15	01/11/2013 19:10	43769	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
43766	03/11/2013 10:45	03/11/2013 11:35	43780	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
43778	03/11/2013 10:45	03/11/2013 11:35	43781	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
43783	03/11/2013 14:50	03/11/2013 15:40	43784	Eraring to Kemps Creek 5A1 and 5A2 500 kV lines	NSW	Bushfires	INJI
43804	08/11/2013 13:10	08/11/2013 16:40	43811	Sydney South to Kemps Creek 13 330 kV Line and Sydney North to Kemps Creek 14 330 kV line	NSW	Bushfires	INJI
43805	08/11/2013 15:00	08/11/2013 16:55	43808	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
43806	08/11/2013 15:00	08/11/2013 16:55	43807	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
43817	10/11/2013 16:40	10/11/2013 18:00	43819	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
43818	10/11/2013 16:40	10/11/2013 18:00	43820	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
43834	12/11/2013 15:45	12/11/2013 17:45	43836	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
43838	12/11/2013 19:40	12/11/2013 23:45	43840	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
43839	12/11/2013 19:50	13/11/2013 00:10	43841	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
43849	14/11/2013 17:30	14/11/2013 22:40	43852	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
43850	14/11/2013 17:30	14/11/2013 22:40	43853	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
43857	15/11/2013 16:15	15/11/2013 19:15	43860	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
43861	16/11/2013 13:35	16/11/2013 14:15	43862	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
43864	16/11/2013 15:10	16/11/2013 16:20	43867	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
43863	16/11/2013 15:10	16/11/2013 21:30	43869	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
43865	16/11/2013 16:20	16/11/2013 19:50	43872	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
43866	16/11/2013 16:20	16/11/2013 19:50	43871	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
43868	16/11/2013 16:50	16/11/2013 20:00	43870	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
43876	17/11/2013 12:05	17/11/2013 18:40	43880	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
43877	17/11/2013 12:30	17/11/2013 18:40	43881	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
43878	17/11/2013 15:45	17/11/2013 19:45	43883	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
43879	17/11/2013 17:55	17/11/2013 19:20	43882	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
43884	18/11/2013 12:25	18/11/2013 16:25	43886	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
43885	18/11/2013 13:30	18/11/2013 16:25	43887	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
43888	18/11/2013 17:50	18/11/2013 20:30	43889	Chapel St - Liapootah No. 1 and No. 2 220kV lines	QLD	Lightning	GPATS
43902	19/11/2013 08:35	25/11/2013 21:30	44003	Robertstown-Tungkillo 275kV Line Tungkillo end only	SA	Other	Event occurred prior to reclassification
43892	19/11/2013 17:00	19/11/2013 18:45	43894	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
43903	20/11/2013 17:00	20/11/2013 18:20	43904	Chapel St - Liapootah No. 1 and No. 2 220kV lines	QLD	Lightning	GPATS
43905	20/11/2013 18:45	20/11/2013 20:45	43906	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
43909	21/11/2013 08:05	21/11/2013 09:10	43913	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
43911	21/11/2013 09:30	21/11/2013 12:30	43917	George Town - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
43912	21/11/2013 09:30	21/11/2013 12:30	43918	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
43916	21/11/2013 11:20	21/11/2013 16:50	43922	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
43920	21/11/2013 15:00	21/11/2013 21:25	43928	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
43923	21/11/2013 17:30	21/11/2013 21:15	43927	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
43925	21/11/2013 19:15	21/11/2013 21:15	43926	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
43935	22/11/2013 10:35	22/11/2013 15:15	43946	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
43937	22/11/2013 13:40	22/11/2013 14:10	43938	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
43939	22/11/2013 14:15	22/11/2013 16:30	43954	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
43940	22/11/2013 14:20	22/11/2013 20:10	43960	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
43940	22/11/2013 14:20	22/11/2013 20:10	43960	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
43942	22/11/2013 14:20	22/11/2013 20:10	43958	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
43943	22/11/2013 14:30	22/11/2013 16:30	43955	Farrell - Rosebery tee Queenstown - Newton 110 kV line and Farrell - J Butters 220 kV line	TAS	Lightning	GPATS
43947	22/11/2013 15:20	22/11/2013 22:15	43938	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
43950	22/11/2013 16:25	22/11/2013 19:50	43959	Hadspen - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
43956	22/11/2013 17:30	22/11/2013 21:55	43961	Liapootah to Waddamana Tee - Palmerston No.1 and No.2 220 kV lines	TAS	Lightning	GPATS
43956	22/11/2013 18:40	22/11/2013 22:05	43962	Chapel St - Liapootah No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
43965	23/11/2013 00:20	23/11/2013 04:50	43966	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
43967	23/11/2013 11:25	23/11/2013 15:40	43974	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
43967	23/11/2013 11:25	23/11/2013 15:40	43974	George Town - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
43970	23/11/2013 11:40	23/11/2013 15:15	43973	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
43972	23/11/2013 14:20	23/11/2013 18:55	43987	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
43977	23/11/2013 16:35	23/11/2013 19:15	43982	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
43978	23/11/2013 16:35	23/11/2013 19:15	43981	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
43979	23/11/2013 16:50	23/11/2013 19:10	43988	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
43992	24/11/2013 16:15	24/11/2013 18:55	43996	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
43992	24/11/2013 16:15	24/11/2013 21:00	43996	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
44001	25/11/2013 15:55	25/11/2013 17:50	44002	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
44022	27/11/2013 17:00	27/11/2013 18:35	44023	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
44024	28/11/2013 00:05	28/11/2013 00:40	44025	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44027	28/11/2013 03:00	28/11/2013 05:35	44029	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44028	28/11/2013 03:35	28/11/2013 07:20	44030	Liapootah - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44031	28/11/2013 07:10	28/11/2013 07:50	44032	Chapel St - Liapootah No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44042	28/11/2013 15:45	28/11/2013 16:10	44044	Liapootah - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44041	28/11/2013 15:45	28/11/2013 17:50	44048	Hadspen - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44045	28/11/2013 16:10	28/11/2013 16:40	44047	Liapootah - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44046	28/11/2013 16:30	28/11/2013 17:50	44049	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44055	30/11/2013 14:25	30/11/2013 19:25	44058	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
44056	30/11/2013 14:25	30/11/2013 19:25	44057	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
44059	30/11/2013 22:10	01/12/2013 01:35	44061	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
44060	30/11/2013 22:35	01/12/2013 02:20	44063	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS



Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
44062	01/12/2013 01:35	01/12/2013 04:00	44604	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
44068	01/12/2013 12:35	09/12/2013 16:35	44163	Para-Blyth West 275kV line and a 275 kV fault at Bungama Substation	SA	Lightning	Event occurred prior to reclassification
44080	04/12/2013 06:45	04/12/2013 07:55	44083	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
44081	04/12/2013 07:00	04/12/2013 13:50	44094	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
44082	04/12/2013 07:00	04/12/2013 13:50	44093	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
44085	04/12/2013 09:35	04/12/2013 11:20	44092	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
44087	04/12/2013 10:25	04/12/2013 11:20	44090	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44088	04/12/2013 10:25	04/12/2013 11:20	44091	George Town - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44097	05/12/2013 08:50	05/12/2013 10:10	44100	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
44081	05/12/2013 10:45	05/12/2013 14:45	44122	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
44082	05/12/2013 10:45	05/12/2013 14:45	44123	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
44104	05/12/2013 11:05	05/12/2013 13:40	44119	George Town - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44103	05/12/2013 11:10	05/12/2013 13:40	44110	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44105	05/12/2013 12:30	05/12/2013 13:40	44109	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44107	05/12/2013 13:10	05/12/2013 16:10	44130	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
44108	05/12/2013 13:35	05/12/2013 16:50	44133	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
44117	05/12/2013 13:45	05/12/2013 15:20	44126	Liapootah - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44118	05/12/2013 13:45	05/12/2013 15:20	44125	Hadspen - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44120	05/12/2013 14:05	05/12/2013 16:35	44132	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
44128	05/12/2013 16:10	05/12/2013 17:40	44136	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
44129	05/12/2013 16:10	05/12/2013 17:40	44137	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
44142	06/12/2013 16:30	13/12/2013 19:25	44204	Any credible contingency event plus Yallourn W1, Oakland Hill WF, Mortons Lane WF, Macarthur WF reduced by up to 48 MW and Musselroe WF reduced by up to 9 MW.	VIC	Other	Results of incident investigation
44155	09/12/2013 07:45	09/12/2013 09:00	44157	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
44156	09/12/2013 07:45	09/12/2013 09:00	44158	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
44158	09/12/2013 09:20	09/12/2013 10:25	44161	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
44159	09/12/2013 09:20	09/12/2013 10:25	44162	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
44167	09/12/2013 20:25	09/12/2013 22:15	44168	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
44172	10/12/2013 19:20	10/12/2013 20:10	44174	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44186	12/12/2013 16:15	12/12/2013 18:35	44190	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
44188	12/12/2013 18:00	12/12/2013 22:45	44194	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
44189	12/12/2013 18:00	12/12/2013 22:45	44193	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
44191	12/12/2013 20:15	13/12/2013 03:05	44197	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
44192	12/12/2013 21:35	12/12/2013 23:35	44195	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
44199	13/12/2013 14:20	13/12/2013 19:40	44205	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
44200	13/12/2013 16:00	13/12/2013 18:35	44203	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
44202	13/12/2013 17:00	13/12/2013 21:45	44207	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
44224	17/12/2013 18:50	17/12/2013 19:20	44225	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
44226	17/12/2013 20:50	17/12/2013 21:30	44228	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
44227	17/12/2013 20:50	17/12/2013 21:30	44229	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
44237	18/12/2013 18:20	28/03/2014 16:30	45458	Vales Point No.2 330/132 kV transformer and Vales Point-Morisset-Ourimbah 132 kV tee line 957	NSW	Other	Event occurred prior to reclassification
44244	19/12/2013 16:45	19/12/2013 23:00	44276	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
44259	19/12/2013 18:20	19/12/2013 23:00	44275	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
43315	21/12/2013 22:40	21/12/2013 23:40	44316	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
44317	22/12/2013 00:40	22/12/2013 02:30	44318	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
44320	22/12/2013 10:30	22/12/2013 12:45	44324	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44321	22/12/2013 10:30	22/12/2013 12:45	44325	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44322	22/12/2013 10:30	22/12/2013 12:45	44326	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
44323	22/12/2013 12:00	22/12/2013 12:55	44327	Liapootah - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
44329	22/12/2013 17:55	22/12/2013 19:20	44336	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
44332	22/12/2013 18:25	22/12/2013 21:40	44341	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
44334	22/12/2013 18:25	22/12/2013 21:40	44333	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
44337	22/12/2013 19:35	22/12/2013 20:30	44340	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
44344	23/12/2013 07:40	23/12/2013 09:15	44346	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
44356	26/12/2013 10:50	26/12/2013 11:50	44358	Burnie Sheffield No. 2 110kV line and Paloona Sheffield 110kV line	TAS	Lightning	GPATS
44357	26/12/2013 10:50	26/12/2013 11:50	44359	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44362	26/12/2013 12:55	26/12/2013 17:20	44369	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
44363	26/12/2013 13:35	26/12/2013 17:20	44368	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
44364	26/12/2013 16:00	26/12/2013 17:15	44367	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
44365	26/12/2013 16:00	26/12/2013 17:15	44366	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
44371	26/12/2013 18:05	26/12/2013 19:40	44374	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
44372	26/12/2013 18:05	26/12/2013 19:40	44375	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
44392	03/01/2014 14:45	03/01/2014 21:00	44393	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
44395	04/01/2014 16:30	04/01/2014 23:15	44410	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
44416	05/01/2014 13:30	05/01/2014 15:25	44417	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
44418	05/01/2014 15:30	06/01/2014 00:10	44425	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
44419	05/01/2014 15:30	06/01/2014 00:10	44424	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
44422	05/01/2014 22:25	06/01/2014 00:10	44423	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
44431	06/01/2014 08:00	07/01/2014 16:55	44447	Tarong - Chinchilla 7183 and 7168 132 kV lines	QLD	Other	Event occurred prior to reclassification
44440	07/01/2014 03:10	07/01/2014 03:40	44441	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
44444	07/01/2014 10:30	Permanent credible contingency event		APD-HYTS-MOPS No.2 500 kV line and both APD potlines	VIC	Other	Event occurred prior to reclassification
44450	07/01/2014 19:10	07/01/2014 20:15	44451	Tarong to Chinchilla 7183 and 7168 132kV Lines	QLD	Lightning	GPATS
44457	09/01/2014 13:15	09/01/2014 14:20	44458	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
44460	11/01/2014 12:50	06/06/2014 17:00	45853	Any 220 kV Victorian fault and Waubra WF reduced by 43 MW.	VIC	Other	Results of incident investigation
44591	15/01/2014 20:35	16/01/2014 00:00	44609	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
44590	15/01/2014 20:35	16/01/2014 02:10	44610	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
44600	15/01/2014 22:35	16/01/2014 00:15	44605	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
44604	15/01/2014 23:00	16/01/2014 18:15	44645	Redcliffs to Horsham 220 kV line, Redcliffs-Wemen-Kerang 220 kV line at Wemen and Kerang only, and the Wemen 220/66 kV transformer	VIC	Other	Event occurred prior to reclassification
44603	15/01/2014 23:00	03/02/2014 13:00	44881	Hazelwood to Morwell 220 kV line at one end only.	VIC	Other	Event occurred prior to reclassification
44657	17/01/2014 05:40	17/01/2014 07:00	44659	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44658	17/01/2014 06:40	17/01/2014 08:00	44660	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
44671	17/01/2014 12:45	17/01/2014 13:20	44675	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
44689	17/01/2014 18:00	17/01/2014 18:55	44690	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
44691	17/01/2014 19:15	17/01/2014 21:35	44695	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
44692	17/01/2014 19:15	17/01/2014 21:35	44694	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
44696	17/01/2014 22:30	18/01/2014 00:00	44698	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44700	18/01/2014 00:00	18/01/2014 02:45	44706	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
44702	18/01/2014 00:20	18/01/2014 03:00	44707	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
44703	18/01/2014 00:25	18/01/2014 03:00	44708	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
44705	18/01/2014 01:10	18/01/2014 03:00	44709	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
44703	18/01/2014 23:40	18/01/2014 00:35	44704	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
44739	21/01/2014 18:15	21/01/2014 23:45	44741	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
44747	22/01/2014 15:15	23/01/2014 00:15	44749	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
44755	23/01/2014 13:30	23/01/2014 18:40	44760	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
44758	23/01/2014 14:55	23/01/2014 18:40	44761	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
44763	24/01/2014 01:50	24/01/2014 04:50	44768	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
44765	24/01/2014 04:30	24/01/2014 06:15	44771	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
44766	24/01/2014 04:40	24/01/2014 06:55	44772	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
44767	24/01/2014 04:50	24/01/2014 08:40	44775	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
44769	24/01/2014 05:20	24/01/2014 08:40	44776	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
44784	25/01/2014 18:40	25/01/2014 22:20	44787	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
44785	25/01/2014 18:40	25/01/2014 23:50	44788	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
44786	25/01/2014 20:00	25/01/2014 23:50	44789	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
44836	01/02/2014 16:30	01/02/2014 22:25	44844	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
44837	01/02/2014 16:50	01/02/2014 19:35	44841	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
44838	01/02/2014 16:50	01/02/2014 19:35	44842	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
44859	02/02/2014 13:30	02/02/2014 23:00	44874	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
44878	03/02/2014 07:00	03/02/2014 12:50	44880	Kemps Creek to Eraring 5A2 500 kV line at Kemps Creek end only	NSW	Other	Event occurred prior to reclassification
44883	03/02/2014 16:20	03/02/2014 18:15	44884	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
44885	03/02/2014 18:40	04/02/2014 02:00	44887	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
44886	03/02/2014 23:05	04/02/2014 02:00	44888	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
44908	07/02/2014 10:00	07/02/2014 11:10	44913	Liapootah - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44909	07/02/2014 10:10	07/02/2014 11:10	44915	Hadspen - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
44938	08/02/2014 20:10	08/02/2014 21:55	44939	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
44940	08/02/2014 22:40	09/02/2014 00:15	44941	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
44942	09/02/2014 10:15	09/02/2014 22:50	44957	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
44945	09/02/2014 12:30	09/02/2014 13:10	44949	South Morang - Sydenham No.1 and No.2 500 kV transmission lines	VIC	Bushfires	INJI
44944	09/02/2014 12:35	09/02/2014 15:00	44950	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44946	09/02/2014 12:55	09/02/2014 16:45	44951	Liapootah - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44947	09/02/2014 12:55	09/02/2014 16:45	44952	Chapel St - Liapootah No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44948	09/02/2014 13:00	09/02/2014 15:35	44953	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
44959	10/02/2014 08:20	10/02/2014 10:50	44963	Hazelwood to Yallourn No.1 and No.2 220 kV transmission lines	VIC	Bushfires	INJI
45014	14/02/2014 13:55	14/02/2014 17:20	45017	Liapootah - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45016	14/02/2014 15:35	14/02/2014 17:20	45018	Hadspen - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45023	15/02/2014 13:35	15/02/2014 22:05	45038	Liapootah - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45025	15/02/2014 14:00	15/02/2014 22:05	45037	Chapel St - Liapootah No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45026	15/02/2014 15:30	15/02/2014 20:35	45033	Hadspen - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45027	15/02/2014 16:20	15/02/2014 21:40	45036	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45031	15/02/2014 19:00	15/02/2014 20:55	45034	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS



Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
45032	15/02/2014 20:00	15/02/2014 20:55	45035	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
45040	15/02/2014 23:20	16/02/2014 01:35	45041	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
45045	16/02/2014 11:00	17/02/2014 01:00	45058	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
45046	17/02/2014 12:35	17/02/2014 14:15	45048	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
45047	17/02/2014 14:05	17/02/2014 21:05	45056	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
45049	17/02/2014 15:40	17/02/2014 21:05	45057	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
45061	17/02/2014 16:35	17/02/2014 18:50	45065	Kemmis Moranbah tee Burton Downs 7117 132kV line and Nebo Moranbah tee Coppabella 7118 132kV line	QLD	Lightning	GPATS
45062	17/02/2014 17:25	17/02/2014 18:50	45066	Moranbah Goonyella 7369 and 7370 132kV lines	QLD	Lightning	GPATS
45068	17/02/2014 19:35	18/02/2014 01:55	45071	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
45069	17/02/2014 20:15	Permanent credible contingency event		Roma Unit 7 and Roma Unit 8	QLD	Other	Event occurred prior to reclassification
45076	18/02/2014 14:25	18/02/2014 17:20	45079	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
45080	19/02/2014 09:20	19/02/2014 12:50	45089	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45082	19/02/2014 10:45	19/02/2014 13:15	45090	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45083	19/02/2014 10:45	19/02/2014 13:15	45081	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
45086	19/02/2014 10:50	19/02/2014 15:55	45094	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
45084	19/02/2014 10:50	19/02/2014 22:30	45106	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
45085	19/02/2014 10:50	19/02/2014 22:30	45105	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
45095	19/02/2014 16:50	19/02/2014 18:55	45104	Chalumbin Woree 876 and 877 275kV lines	VIC	Lightning	GPATS
45125	19/02/2014 19:30	19/02/2014 22:55	45126	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
45115	19/02/2014 22:45	20/02/2014 02:05	45116	Chapel St - Liapootah No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45120	20/02/2014 18:30	20/02/2014 19:15	45124	George Town - Sheffield No. 1 and No. 2 220kV lines	TAS	Bushfires	INJI
45121	20/02/2014 18:30	20/02/2014 19:15	45123	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Bushfires	INJI
45181	22/02/2014 01:30	22/02/2014 04:20	45182	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
45196	25/02/2014 15:55	25/02/2014 18:40	45202	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
45197	25/02/2014 16:05	25/02/2014 18:40	45203	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
45199	25/02/2014 16:05	25/02/2014 19:45	45204	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
45200	25/02/2014 16:05	25/02/2014 19:45	45205	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
45210	26/02/2014 13:20	26/02/2014 15:05	45212	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
45211	26/02/2014 13:20	26/02/2014 15:05	45213	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
45226	01/03/2014 12:10	01/03/2014 13:00	45227	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
45228	01/03/2014 13:50	01/03/2014 15:30	45231	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
45229	01/03/2014 14:40	01/03/2014 15:30	45230	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
45232	01/03/2014 15:45	01/03/2014 19:35	45237	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
45235	01/03/2014 18:30	01/03/2014 19:35	45236	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
45245	04/03/2014 09:20	Permanent credible contingency event		TRTS-HYTS-APD No.1 500 kV line and both APD potlines	VIC	Lightning	Results of incident investigation
45250	04/03/2014 19:05	04/03/2014 20:00	45251	Glenrowan - Dederang No. 1 and No. 3 220kV lines	NSW	Lightning	GPATS
45253	05/03/2014 02:00	05/03/2014 04:30	45260	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45255	05/03/2014 02:25	05/03/2014 05:00	45261	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45256	05/03/2014 03:50	05/03/2014 05:30	45263	Hadspen - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45257	05/03/2014 04:05	05/03/2014 05:30	45264	Liapootah - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45258	05/03/2014 04:10	05/03/2014 05:00	45262	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
45283	08/03/2014 18:10	08/03/2014 20:10	45286	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
45284	08/03/2014 18:20	08/03/2014 19:05	45285	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
45294	11/03/2014 10:15	11/03/2014 11:10	45295	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45296	11/03/2014 11:20	11/03/2014 14:40	45310	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
45296	11/03/2014 11:20	11/03/2014 14:40	45310	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
45302	11/03/2014 12:55	11/03/2014 14:40	45309	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45301	11/03/2014 12:55	11/03/2014 19:05	45329	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
45305	11/03/2014 14:10	11/03/2014 15:50	45314	Liapootah - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45304	11/03/2014 14:10	11/03/2014 17:05	45320	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
45306	11/03/2014 14:10	11/03/2014 19:05	45328	Hadspen - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45307	11/03/2014 14:15	11/03/2014 15:50	45315	Chapel St - Liapootah No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45308	11/03/2014 14:20	11/03/2014 17:05	45321	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
45311	11/03/2014 14:50	11/03/2014 16:00	45316	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45317	11/03/2014 16:25	11/03/2014 19:05	45327	Liapootah - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45318	11/03/2014 16:40	11/03/2014 18:30	45325	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
45319	11/03/2014 16:45	11/03/2014 18:30	45326	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
45322	11/03/2014 17:50	11/03/2014 19:05	45330	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45332	11/03/2014 19:45	11/03/2014 21:15	45338	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45333	11/03/2014 19:50	11/03/2014 21:15	45339	Hadspen - Palmerston No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45335	11/03/2014 20:10	11/03/2014 21:15	45340	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
45336	11/03/2014 20:45	11/03/2014 21:30	45341	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45352	14/03/2014 17:20	14/03/2014 21:35	45353	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
45358	15/03/2014 16:35	15/03/2014 21:05	45364	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
45359	15/03/2014 17:00	16/03/2014 00:10	45365	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
45360	15/03/2014 17:10	16/03/2014 00:10	45366	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
45367	16/03/2014 03:45	16/03/2014 04:30	45370	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
45375	16/03/2014 15:45	16/03/2014 17:20	45376	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
45377	16/03/2014 19:50	16/03/2014 23:45	45378	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
45393	18/03/2014 16:50	18/03/2014 23:45	45394	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
45395	19/03/2014 17:25	19/03/2014 21:30	45397	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
45407	21/03/2014 08:15	21/03/2014 18:15	45414	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
45408	21/03/2014 08:15	21/03/2014 18:15	45415	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
45408	21/03/2014 11:10	21/03/2014 21:10	45415	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
45413	21/03/2014 12:00	21/03/2014 21:15	45421	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
45418	21/03/2014 20:45	Event remains reclassified at time of publication		Bannaby-Mt Piper 5A7 500 kV line and Bayswater No.4 500 kV transformer group	NSW	Other	Event occurred prior to reclassification
45406	24/03/2014 08:15	24/03/2014 10:25	45410	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
45429	24/03/2014 14:05	24/03/2014 16:45	45431	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
45430	24/03/2014 14:05	24/03/2014 16:45	45432	Collinsville - Mackay tee Proserpine 7125 and 7126 132kV Lines	QLD	Lightning	GPATS
45434	24/03/2014 18:40	24/03/2014 20:40	45437	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
45435	24/03/2014 19:05	25/03/2014 01:00	45438	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
45446	26/03/2014 19:00	26/03/2014 20:35	45557	Chalumbin Woree 876 and 877 275kV lines	QLD	Lightning	GPATS
45463	31/03/2014 04:20	31/03/2014 06:00	45467	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
45464	31/03/2014 04:20	31/03/2014 06:00	45468	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
45465	31/03/2014 04:20	31/03/2014 06:00	45466	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
45470	31/03/2014 06:45	31/03/2014 08:15	45471	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
45476	31/03/2014 13:25	31/03/2014 17:10	45478	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
45496	01/04/2014 15:25	01/04/2014 17:15	45502	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
45497	01/04/2014 15:25	01/04/2014 17:15	45503	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
45498	01/04/2014 16:20	01/04/2014 19:10	45504	Heywood to Southeast No.1 and No.2 275 kV lines	VIC	Bushfires	INJI
45510	02/04/2014 22:25	03/04/2014 00:35	45513	Rowville Yallourn No. 5 and No. 6 220kV lines	VIC	Lightning	GPATS
45511	02/04/2014 22:25	03/04/2014 00:35	45514	Hazelwood PS - Rowville No. 1 and 2 220kV lines	VIC	Lightning	GPATS
45512	02/04/2014 23:40	03/04/2014 00:35	45515	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
45529	06/04/2014 16:10	06/04/2014 17:35	45530	Tarong - Chincilla 7183 and 7168 132 kV Lines	QLD	Lightning	GPATS
45553	11/04/2014 15:45	11/04/2014 17:30	45555	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
45582	21/04/2014 20:25	21/04/2014 21:30	45583	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS

Start MN	Start	Actual End Date	End MN	Reclassified Equipment	Region	Reason	Source
45584	22/04/2014 04:40	22/04/2014 06:00	45587	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45586	22/04/2014 05:10	22/04/2014 06:00	45589	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS
45591	22/04/2014 07:00	22/04/2014 08:00	45593	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45599	22/04/2014 21:55	22/04/2014 22:30	45601	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
45600	22/04/2014 21:55	22/04/2014 22:30	45602	Eildon - Mt Beauty No. 1 and No. 2 220kV lines	VIC	Lightning	GPATS
45603	23/04/2014 05:25	23/04/2014 06:00	45604	Glenrowan - Dederang No. 1 and No. 3 220kV lines	VIC	Lightning	GPATS
45610	24/04/2014 02:30	24/04/2014 04:00	45611	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45616	25/04/2014 07:30	22/05/2014 17:40	45756	Redbank-Rothbury No.953 132 kV line	NSW	Other	Event occurred prior to reclassification
45620	25/04/2014 19:25	03/06/2014 09:20	45831	At Hazelwood Terminal Station the Rowville Terminal Station 3 line 3 bus 500 kV CB and the Cranbourne Terminal Station 4 line 3 bus 500 kV CB	VIC	Other	Event occurred prior to reclassification
45623	26/04/2014 04:15	26/04/2014 05:40	45627	Farrell - John Butters 220kV line & Farrell - Rosebery Tee Queenstown - Newton 110kV line	TAS	Lightning	GPATS
45622	26/04/2014 04:25	26/04/2014 05:40	45626	Farrell Reece No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45625	26/04/2014 05:10	26/04/2014 07:10	45632	Farrell - Sheffield No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45628	26/04/2014 06:15	26/04/2014 07:05	45631	Chapel St - Liapootah No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45629	26/04/2014 06:30	26/04/2014 07:50	45633	George Town - Hadspen No. 1 and No. 2 220kV lines	TAS	Lightning	GPATS
45630	26/04/2014 06:45	26/04/2014 08:40	45634	Norwood-Scottsdale-Derby 110kV Line and Norwood-Scottsdale 110kV Line	TAS	Lightning	GPATS

## 8 Non-credible Contingency Events

Table 5 Actual non-credible contingencies from 1 November 2013 from 30 April 2014.

Date of contingency	Description	Region	Reason	Was the contingency then reclassified?	Comments
12/11/2013 13:10	Trip of all Lake Bonney windfarms	SA	Other	No	Inadvertent transformer trip during planned outage at Mayurra. Assessed as unlikely to reoccur
14/11/2013 15:25	Trip of Ross 275 kV No. 2 Busbar	QLD	Other	No	Failed CT caused busbar trip. Assessed as unlikely to reoccur
17/11/2013 06:40	Trip of Sydney West A2 330kV bus and Sydney West - Liverpool (30) 330kV line	NSW	Other	No	Incorrect isolation during a planned outage caused busbar trip. Assessed as unlikely to reoccur
18/11/2013 17:30	Trip of Murray-Lower Tumut No.66 330 kV Transmission Line at Murray End	NSW	Other	No	Inadvertent trip during planned outage caused trip of transmission line. Assessed as unlikely to reoccur
19/11/2013 16:00	Trip of Robertstown-Tungkillo 275 kV Line at Tungkillo End	SA	Other	Yes	Inadvertent trip caused by faulty protection relay resulted in line opening at one end. Event reclassified while cause was being investigated
21/11/2013 22:10	Trip of Woodlawn Windfarm and Capital Hill Windfarm	NSW	Other	No	Transformer protection tripped wind farms. Assessed as unlikely to reoccur
23/11/2013 12:50	Simultaneous trip Norwood-Scottsdale-Derby and Norwood-Scottsdale 110kV Lines	TAS	Lightning	No	Lightning strike caused simultaneous trip of double circuit, single tower transmission lines - Now classified Vulnerable lines
01/12/2013 08:00	Trip of Davenport-Bungama-Blyth-Para 275 kV Transmission Lines	SA	Other	Yes	Failed CT at Bungama caused trip of 3 lines (Bungama - Davenport, Blyth West - Bungama, Blyth West - Para). Event was reclassified while cause of incident was being investigated
11/12/2013 07:45	Trip of Upper Tumut Substation 5A1 and 5B Busbars	NSW	Other	No	Switching error caused busbar trip. Assessed as unlikely to reoccur
14/12/2013 07:50	Trip of Vales Point No.2 330/132 kV transformer and Vales Point - Morisset - Ourimbah 957 132kV transmission line	NSW	Other	Yes	Inadvertent trip of transformer for a fault on transmission line caused by faulty protection scheme. Event reclassified while cause was being investigated
18/12/2013 06:45	Trip of Cathedral Rocks Wind Farm	SA	Other	No	Incorrect Runback Server signal sent to trip Cathedral Rocks Wind Farm. Assessed as unlikely to reoccur
21/12/2013 04:05	Trip of Greenbank - Molendinar 275 kV Transmission Line at Greenbank End	QLD	Other	No	Inadvertent trip caused by faulty protection relay. Assessed as unlikely to reoccur
23/12/2013 08:55	Simultaneous Trip of both Millmerran PS Units 1 and 2	QLD	Other	No	Communication failure caused trip of generating units. Assessed as unlikely to reoccur
05/01/2014 09:50	Trip Rowville Yallourn 220 kV Line and Multiple WFs 5 Jan 2014	VIC	Other	No	Single phase-earth fault caused trip of Rowville - Yallourn No. 8 275 kV transmission line. Assessed as unlikely to reoccur
06/01/2014 05:50	Trip of the Tarong - Chinchilla 132kV lines (feeders 7183 and 7168)	QLD	Lightning	Yes	Trip of Tarong - Chinchilla 132 kV lines (7183 and 7168) caused by lightning. Reclassified while cause was being investigated. Lines now classified as Vulnerable
07/01/2014 09:00	Trip_MOPS-HYTS-APD 500kV Line and two APD potlines	VIC	Other	Yes	Inadvertent trip of APD potlines due to under voltage. Event permanently reclassified as a credible contingency as AEMO considers this event likely to reoccur given similar circumstances
14/01/2014 18:35	Trip of South Morang to Thomastown No.2 220kV Line at Thomastown end	VIC	Other	No	Inadvertent trip caused by faulty protection relay. Assessed as unlikely to reoccur
15/01/2014 22:05	Trip of Horsham-Redcliffs and Kerang-Wemen 220 kV transmission lines	VIC	Other	Yes	Inadvertent trip of Horsham - Redcliffs 220 kV line caused by bushfire smoke. Inadvertent trip of Kerang - Wemen 220 kV line caused by incorrect operation



Date of contingency	Description	Region	Reason	Was the contingency then reclassified?	Comments
					of protection. Event reclassified while cause was being investigated
15/01/2014 22:10	Trip of Hazelwood - Morwell 220 kV transmission line at the Hazelwood End	VIC	Other	Yes	The cause for the opening of the circuit breaker at Hazlewood could not be identified. Reclassified until confirmation that the cause could not be identified.
22/01/2014 06:35	Trip of the Rowville-Thomastown 220kV Line at the Rowville End	VIC	Other	No	Inadvertent operation of protection relay caused trip of transmission line. Assessed as unlikely to reoccur
22/01/2014 15:55	Trip of T12 Kilkivian 132kV busbar	QLD	Other	No	Cause unknown - lightning storms in area
29/01/2014 08:10	Trip of Cultana North 132kV Bus and Cultana-Whyalla Terminal No. 2 132kV Line at Whyalla Terminal end	SA	Other	No	Failed CT caused busbar trip. Assessed as unlikely to reoccur
29/01/2014 13:45	Trip of Ringwood No.2 220kV Bus	VIC	Other	No	Inadvertent operation of protection relay caused trip of transmission line. Assessed as unlikely to reoccur
03/02/2014 00:30	Trip of Eraring-Kemps Creek 500 kV line at Kemps Creek End	NSW	Other	Yes	Inadvertent trip of Eraring - Kemps Creek 500 kV line caused by faulty protection relay. Event reclassified while cause was investigated
07/02/2014 10:30	Trip of Three 500 kV Circuit Breakers at Hazelwood Terminal Station	VIC	Other	No	Inadvertent trip of 3 circuit breakers caused by faulty protection relay. Assessed as unlikely to reoccur
17/02/2014 17:00	Simultaneous trip of Roma Generators 7 and 8	QLD	Other	Yes	Both generators unable to ride through a fault. Event permanently reclassified as a credible contingency as AEMO considers this event likely to reoccur for a similar fault
26/02/2014 11:45	Trip of H11 NEBO No 1 132kV Bus	QLD	Other	No	Inadvertent operation of busbar protection. Assessed as unlikely to reoccur
19/03/2014 17:50	Trip of Bayswater No.4 Unit, Generator Transformers 4A, 4B and Bannaby to Mount Piper 5A7 500kV line	NSW	Other	Yes	Inadvertent trip of Bannaby - Mt Piper 5A7 500 kV transmission line caused by lightning. Event reclassified while cause is being investigated
26/03/2014 10:55	Trip of NEBO No1 275kV Bus	QLD	Other	No	Inadvertent operation of busbar protection. Assessed as unlikely to reoccur
30/03/2014 21:35	Trip of Calvale No.2 275 kV busbar and Calvale-Halys 8810 and 8811 - 30 Mar 2014	QLD	Other	No	Failed CT caused busbar trip. Assessed as unlikely to reoccur
04/04/2014 06:30	Trip of Jeeralang - Morwell 220kV line and Morwell 66kV bus section 1	VIC	Other	No	Protection failed to clear line fault. Was cleared later by busbar protection when the live conductors fell onto the Busbar. Assessed as unlikely to reoccur
06/04/2014 10:50	Trip of H63 Tebar Creek No.2 132kV Bus	QLD	Other	No	Inadvertent operation of busbar protection. Assessed as unlikely to reoccur
06/04/2014 15:05	Trip of H63 Teebar Creek No.2 132kV Bus - second event	QLD	Other	No	Inadvertent operation of busbar protection. Assessed as unlikely to reoccur
23/04/2014 22:55	Trip of H13 Ross to H32 Chalumbin 858 275kV Line at the H13 Ross end only	QLD	Other	No	Inadvertent operation of protection relay caused trip of transmission line. Assessed as unlikely to reoccur
25/04/2014 07:30	Trip of 953 Redbank to Rothbury 132 kV line and Redbank Unit	NSW	Other	Yes	Inadvertent trip of Redbank unit caused by lightning. Cause of the trip of the 953 Redbank - Rothbury 132 kV transmission line is unknown. Event is reclassified as a credible contingency while cause was being investigated
25/04/2014 19:25	Trip of No. 3 500kV Busbar at Hazlewood TS	VIC	Other	Yes	The cause of the inadvertent trip of the busbar could not be identified. Event reclassified while cause of the event was being investigated

## 9 Permanent and Current Reclassifications

Table 6 Record of Permanent and Current Reclassifications

Start MN	Start	Reclassified Equipment	Region	Reason	Type	Comments
45069	17/02/2014 20:15	Roma Unit 7 and Roma Unit 8	QLD	Other	Permanent	Issue not resolved. Event likely to re-occur given similar circumstances
45245	04/03/2014 09:20	TRTS-HYTS-APD No.1 500 kV line or APD-HYTS-MOPS No.2 500 kV line and both APD potlines	VIC	Other	Permanent	APD unable to ride through low volts. Event likely to re-occur given similar circumstances
45418	21/03/2014 20:45	Bannaby-Mt Piper 5A7 500 kV line and Bayswater No.4 500 kV transformer group	NSW	Other	Current	Cause of incident currently under investigation. Event remains reclassified until cause identified

## 10 Contingency events occurring while reclassified

Table 7 List of contingency events that occurred while they were reclassified

Start MN	Start Reclass	End Reclass	End MN	Contingency event	Region	Comments
44604	15/01/2014 23:00	16/01/2014 18:15	44645	Trip of Horsham-Redcliffs and Kerang-Wemen 220 kV transmission lines	VIC	Contingency event occurred twice while reclassified