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| Lack of reserve - Credible Contingency List |
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| PREPARED BY: | AEMO [Insert Dept/Group] |
| DOCUMENT REF: | XX-XXXX |
| VERSION: | [Draft 0.1] |
| EFFECTIVE DATE: | dd month yyyy |
| STATUS: | DRAFT |
|  |  |
| Approved for distribution and use by: | |
| APPROVED BY: |  |
| TITLE: |  |
|  |  |
| DATE: | / / 20 |

Version Release History

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| --- | --- | --- |
| Version | Effective Date | Summary of Changes |
| 0.1 | NA | Draft release with consultation on Reserve Level Declaration Guidelines |
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# Introduction

## Purpose

This document lists the relevant *credible contingency* events, by *region*, that are considered by AEMO for the purposes of clause [4] of the Reserve Level Declaration Guidelines (**Guidelines**), made under clause 4.8.4A of the National Electricity Rules (**NER**).

The Guidelines may be found on AEMO’s website: [www.aemo.com.au](http://www.aemo.com.au).

## Definitions and Abbreviations

### Glossary

Terms defined in the NER and the Guidelines have the same meanings when used in this document.

# Relevant Credible contingency Events by region

## Generator Contingencies

In all regions the following generation events are considered to be a credible contingency for LOR declaration:

* Loss of the largest single *scheduled generating unit*. Size is as indicated by its bid availability.
* Loss of the largest wind or solar farm which is configured such that it would be fully disconnected by a single *credible contingency*. Size is as indicated by its forecast output.

## Network Contingencies

For capacities indicated below with an asterisk “\*”, the value will be calculated dynamically. The maximum potential capacity is shown in the tables. The dynamic quanitities outputs will be calculated from:

* For *scheduled generating units*, the bid availability.
* For wind and solar farms, the forecast output.

### New South Wales

|  |  |  |
| --- | --- | --- |
| **Contingency** | **Risk** | **Capacity at risk (MW)** |
| Colongra – Munmorah 330 kV C1 Line | Colongra unit 1 + 2 | 362\* |
| Colongra – Munmorah 330 kV C3 Line | Colongra unit 3 + 4 | 362\* |

### Queensland

| **Contingency** | **Risk** | **Capacity at risk (MW)** |
| --- | --- | --- |
| Braemar – Darling Downs 275 kV 8862 line | Darling Downs unit 2+3 | 256\* |
| Braemar 2 PS – Braemar 275kV 8840 line | Braemar Unit 5 + 6 | 346\* |
| Braemar PS - Braemar 275kV 8839 | Braemar Unit 2 + 3 | 336\* |

### South Australia

|  |  |  |
| --- | --- | --- |
| **Contingency** | **Risk** | **Capacity at risk**  **(MW)** |
| Blyth West – Snowtown 275 kV | Snowtown South (126) + North wind farms (90+54) | 270\* |
| Murraylink | Murraylink (220) | 220 |
| Canowi – Hallett 275 kV | Hallett wind farm (95) + Hallet GTs (220) | 315\* |
| Snuggery – Mayura 132 kV | Lake Bonney 1+2+3 wind farms | 279\* |
| Yadnarie – Port Lincoln 132 kV | Port Lincoln GTs (25+28+28) + Cathedral rocks wind farm (66) | 147\* |
| TIPS – Torrens Island North No. 2 66 kV line | QPS units 1-4 | 100\* |
| Either Heywood – South East 275 kV transmission line. | Heywood is a double circuit interconnector. On the loss of one circuit, Heywood interconnector will be limited to 250 MW. Therefore, the normal capacity at risk associated with the loss of an element of Heywood interconnector is 350 MW. The capacity at risk for the loss of both elements would be normally 600 MW. | 350 |

### Tasmania

The Tasmaian contingency list includes contigencies that are a result of of the reclassification of the trip of any Tasmanian transmission line and the Basslink interconnector when importing. For further information on the reclassification please refer to SO\_OP\_3715 – Power System Security Guidelines.

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| --- | --- | --- |
| **Contingency** | **Risk** | **Capacity at risk (MW)** |
| Basslink Import +  Any Generating unit connected to the power system by a signle transmission line | Basslink Import +  Any Generating unit connected to the power system by a signle transmission line | 510\*-646\* |
| Liapootah-Wayatinah 220 kV | Wayatinah + Catagunya | 86\* |
| Basslink Import | Basslink | 478 |

### Victoria

| **Contingency** | **Risk** | **Capacity at risk (MW)** |
| --- | --- | --- |
| Mt Beauty – Mckay Ck 220 kV line | All Bogong units and Mcky units | 300\* |
| Basslink | Basslink | 594 |