CRITICAL TRANSMISSION ELEMENTS FOR THE PURPOSE OF IDENTIFYING REVIEWABLE OPERATING INCIDENTS

VERSION: 2

DATE: 20 March 2013

Version Release History

Version	Date	By	Changes
2	20/03/2013	AEMO	Final list. Removal of : • Wagga – Uranquinty 132 kV lines due to existence of automated control scheme. • Lane Cove – Sydney North 132 kV lines and Tuggerah – Gosford and Tuggerah – Ourimbah 132 kV lines. Clause 6(f) of the AEMC's Guidelines for identifying reviewable operating incidents covers incidents involving material loss of load. Therefore there is no particular need to identify those cases in the Critical Transmission Elements list. Disclaimer included.
1	11/02/2013	AEMO	Initial list

Important Notice

AEMO has prepared this document to provide information about reviewable operating incidents, as at the date of publication.

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1 Introduction

On 20 December 2012, the Reliability Panel completed the final report about its review of the guidelines for identifying reviewable operating incidents.

Clauses 4.8.15 (b) and 4.8.15 (c) of the National Electricity Rules require AEMO to investigate every 'reviewable operating incident' in the power system and report its findings. The Reliability Panel has determined that a number of incidents in the transmission and distribution network that are reviewable under the current guidelines are not 'of significance to the operation of the power system' and do not 'involve significant deviations from the normal operating conditions'. As such, the guidelines have been amended to focus reviews on incidents of significance to the operation of the power system.

2 Critical Transmission Elements

One of the key changes from the amendments is the introduction of the term 'critical transmission elements'. For the purposes of the Panel's final guidelines, critical transmission elements are those with a minimum voltage of 220 kV or elements of a lower voltage that have been identified by AEMO as critical for the supply of electricity in or between regions.

AEMO has identified a list of critical transmission elements which can be found in Appendix A.

3 Appendix A – Critical Transmission Elements

Appendix A shows the list of critical transmission elements that AEMO has identified for the purpose of identifying reviewable operating incidents.

Region	Critical transmission elements
Queensland	Any element with an operating voltage of 220 kV or above (as defined in AEMC's Guidelines) Network elements from H4 Mudgeeraba to the QLD – NSW border that are connected to Directlink. (Multiple regions affected) - 757 Mudgeeraba – Terranora 110 kV - 758 Mudgeeraba – Terranora 110 kV Network elements connecting Boyne Island load. (Sensitive load) - 7145 Boyne Island – Calliope River 132 kV - 7146 Boyne Island – Calliope River 132 kV
New South Wales	Any element with an operating voltage of 220 kV or above (as defined in AEMC's Guidelines) Network elements from Lismore to QLD – NSW border that are connected to Directlink. (Multiple regions affected) - Any element at 132 kV level from Lismore to Mullumbimby.
Victoria	Any element with an operating voltage of 220 kV or above (as defined in AEMC's Guidelines) Murraylink and associated equipment. (Multiple regions affected)
South Australia	Any element with an operating voltage of 220 kV or above (as defined in AEMC's Guidelines) Murraylink and associated equipment. (Multiple regions affected) Any element at 132 kV level from Cherry Gardens through South East.(Provide support to 220 kV network) Any element at 132 kV level from Robertstown through Monash (Provide support to interconnection) Any element at 66 kV level around Osborne and Torrens Island. (Multiple contingency event in this 66 kV network can affect significant amount of generation in the area)
Tasmania	Any element with an operating voltage of 220 kV or above (as defined in AEMC's Guidelines) 110 kV network from Chapel St to Palmerston (Multiple contingency event in this 110 kV network can affect significant amount of generation in the area)