

Schedule 1 – Delegated Functions

NER reference	Subject Matter	Delegated Function	Limitations/Conditions on Delegated Function
4.10.3 & 4.10.5	Liaison with DSOs	Within the AEMO Operational Zone, AEMO's responsibilities under clause 4.10.3 and 4.10.5 of the NER to maintain effective communications with each DSO whose <i>distribution network</i> is connected to Transgrid's <i>transmission network</i> concerning the conditions of the DSO's <i>distribution network</i> and to co-ordinate activities where either Transgrid's or the DSO's operations are anticipated to affect other <i>distribution networks</i> or <i>transmission networks</i> .	<p>Without limiting the generality of this Delegated Function, Transgrid will interact with DSOs and co-ordinate activities with DSOs for the following purposes:</p> <ul style="list-style-type: none"> co-ordinating <i>planned outages</i>; identifying fault contributions to Transgrid's <i>transmission network</i> resulting from the actions of <i>embedded generating units</i>; communicating all underfrequency settings to relays as determined and notified by AEMO; requiring the activation or de-activation of DSO <i>reactive plant</i>; implementing <i>load shedding</i> and <i>load restoration</i>; and implementing a <i>system restart plan</i>, <p>as required by the Regional Power System Operating Procedure – New South Wales.</p> <p>Transgrid will keep AEMO informed in a timely manner of all communications with DSOs and the impact of each DSO's activities and <i>distribution networks</i> on the <i>power system</i>.</p>
4.10.4	Liaison with DSOs	AEMO's responsibility to receive notices from DSOs affecting the AEMO Operational Zone under clause 4.10.4 of the NER.	<p>Without limiting the generality of this Delegated Function, Transgrid must receive the relevant notices under clause 4.10.4 of the NER and:</p> <ul style="list-style-type: none"> take them into consideration when undertaking any Delegated Function in relation to the AEMO Operational Zone; and advise AEMO where required by the Regional Power System Operating Procedure – New South Wales.

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4.3.1(s)	Load Shedding and Restoration	Within the AEMO Operational Zone or the Transgrid Operational Zone, AEMO's responsibilities to co-ordinate and direct any rotation of widespread interruption of demand in the event of a major <i>supply shortfall</i> or <i>disruption</i> .	<p>This Delegated Function must be carried out in accordance with the <i>load shedding procedures</i> and is restricted to the following activities:</p> <ul style="list-style-type: none"> upon receipt of a direction under the NEL from AEMO to commence <i>load shedding</i>, Transgrid must determine whether <i>load shedding</i> can occur from <i>transmission connection points</i>, or <i>distribution connection points</i>; if <i>load shedding</i> is to occur from <i>transmission connection points</i>, Transgrid must determine the <i>connection points</i> from which <i>load</i> will be shed; if <i>load shedding</i> is to occur from <i>distribution connection points</i>, Transgrid must transmit AEMO's direction to the DSOs in New South Wales; and upon receipt of a direction under the NEL from AEMO to restore <i>load</i>, to restore <i>load</i> to <i>transmission connection points</i>, or transmit AEMO's direction to the DSOs, as appropriate. <p>This Delegated Function does not extend to the following:</p> <ul style="list-style-type: none"> the issue of directions under the NEL or issued under clause 4.8.9 of the NER; compliance with directions under the NEL issued by AEMO; the provision of interruptible <i>load</i> under clause 4.3.4(b) of the NER; the maintenance of facilities for rotational <i>load shedding</i> under clause 4.3.4(c) of the NER; the provision of sufficient <i>load</i> under the control of <i>under-frequency</i> and <i>under-voltage</i> relays and automatic and manual <i>load shedding</i> processes under clause S5.1.10.1 of the NER; and the maintenance of a compliance program and testing of <i>control systems</i> for <i>load shedding</i> under clause 5.7.4(a1) of the NER.

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4.3.1(a) & (q)	System Restart	Within the AEMO Operational Zone, AEMO's responsibilities to restore or maintain <i>power system security</i> following a <i>major supply disruption</i> .	<p>This Delegated Function must be carried out in accordance with the <i>system restart plan</i> and is restricted to the following activities:</p> <ul style="list-style-type: none"> upon receipt of a direction under the NEL from AEMO to establish a specified restart path, Transgrid must develop a detailed switching plan; liaise with AEMO and <i>Registered Participants</i> as necessary in the development of the detailed switching plan; and carry out <i>network switching</i> to implement the detailed switching plan and complete the restoration of <i>load</i> in accordance with the <i>load shedding procedures</i>. <p>This Delegated Function does not extend to the following:</p> <ul style="list-style-type: none"> any <i>network switching</i> in response to a direction under the NEL from AEMO to perform specified <i>network switching</i>; development of, and amendments to, Transgrid's <i>local black system procedures</i>; and compliance with Transgrid's <i>local black system procedures</i>.
4.3.1	Power System Security following total breakdown in communications	AEMO's responsibilities under clause 4.3.1(a) of the NER	<p>This Delegated Function is restricted to the following actions, which will be carried out in accordance with the Regional Power System Operating Procedure – New South Wales:</p> <ul style="list-style-type: none"> while there exists a breakdown in all communications systems between the AEMO and Transgrid <i>control centres</i>, Transgrid may take whatever action is necessary to restore or maintain the <i>transmission network</i> in New South Wales to a <i>satisfactory operating state</i>; and provided that, as required by NER clause 4.8.9(a2), Transgrid follows the processes in NER rule 4.8 unless it is not reasonably practicable to do so, the actions Transgrid may take to restore or maintain the <i>transmission network</i> in New South Wales to a <i>satisfactory operating state</i> include the issue of <i>directions</i> or <i>clause 4.8.9 instructions</i> and this document may be taken as AEMO's authorization for the purposes of NER clause 4.8.9(a)(2).

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4.3.1(a)	Power System Security within the Transgrid Operational Zone	Within the Transgrid Operational Zone, AEMO's responsibilities under clause 4.3.1(a) of the NER.	<p>This Delegated Function is restricted to the following actions, which will be carried out in accordance with the Regional Power System Operating Procedure – New South Wales:</p> <ul style="list-style-type: none"> • advise AEMO of line <i>outages</i> as specified by the Regional Power System Operating Procedure – New South Wales; • receipt and assessment of data related to the status and performance of the Transgrid Operational Zone to ensure it remains in a <i>satisfactory operating state</i> and <i>secure operating state</i>; • taking action to restore the Transgrid Operational Zone to a <i>satisfactory operating state</i> and <i>secure operating state</i>; • where necessary, seeking from AEMO the invocation of <i>constraint</i> equations to restore the Transgrid Operational Zone to a <i>satisfactory operating state</i> and <i>secure operating state</i>; and • where necessary, seeking from AEMO the issue of <i>directions</i> or <i>clause 4.8.9 instructions</i> to restore the Transgrid Operational Zone to a <i>satisfactory operating state</i>. <p>This Delegated Function does not include any <i>network switching</i> in response to an instruction from AEMO to perform specified <i>network switching</i>.</p>