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Current version release details

Version	Effective date	Summary of changes
<u>23</u>	TBD	Changes to reflect the National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021 and Rule 2023 No. 2 – Effective 3 June 2024

Note: There is a full version history at the end of this document.



1. Introduction

1.1. Purpose and scope

These are the procedures for the issue of *directions* made under clause 4.8.9(b) of the National Electricity Rules (NER) (**Procedures**).

These Procedures have effect only for the purposes set out in the NER. The NER and the National Electricity Law (NEL) prevail over these Procedures to the extent of any inconsistency.

1.2. Definitions and interpretation

1.2.1. Glossary

Terms defined in the NEL and the NER have the same meanings in these Procedures unless otherwise specified in this clause.

Terms defined in the NER are intended to be identified in these Procedures by italicising them, but failure to italicise a defined term does not affect its meaning.

In addition, the words, phrases and abbreviations in the table below have the meanings set out opposite them when used in these Procedures.

Term	Definition
AEMO	Australian Energy Market Operator Limited
Direction Period	The period starting at the time from which <i>energy</i> , an <i>ancillary service</i> or another service is to be provided under a <i>direction</i> (as specified in that <i>direction</i>), and ending at either: a) the end time specified in the <i>direction</i> , if applicable; b) otherwise, the time with effect from which AEMO revokes the <i>direction</i> .
NEL	National Electricity Law
NER	National Electricity Rules
Requirement	A requirement for <i>energy, ancillary services</i> or other services that is to be met by AEMO issuing a <i>direction</i>
RP Guidelines	Guidelines for management of electricity supply shortfall events - Equitable Load Shedding Arrangements, issued by the <i>Reliability Panel</i> in December 2009
TNSP	Transmission Network Service Provider

1.2.2. Interpretation

These Procedures are subject to the principles of interpretation set out in Schedule 2 of the NEL.

1.3. Related documents

Reference	Title	Location
N/A	Intervention Pricing Methodology (NER clause 3.9.3(e)	
SO_OP_3715	Power System Security Guidelines	
SO_OP_3717	Procedure for the Dispatch and Activation of Reserve Contracts	



Reference	Title	Location
AEMC Reliability Panel	Guidelines for management of electricity supply shortfall events - Equitable Load Shedding Arrangements, December 2009	

2. Background

2.1. Meaning of directions and clause 4.8.9 instructions

- (a) Section 116 of the NEL and clause 4.8.9 of the NER establish that AEMO may, where it considers it is necessary, direct a Registered Participant (or authorise another person to direct a Registered Participant) to take relevant actions to maintain or restore the security or reliability of the power system, or for reasons of public safety.
- (b) The distinction between a *direction* and a *clause 4.8.9 instruction* is set out in clause 4.8.9(a1) of the NER. Either can be a 'direction' in the broader sense used in the NEL. However, for NER purposes different terms are used depending on whether the direction is forclause 4.8.9(a1) provides that if a *Registered Participant* is required to take:
 - (i) action relating to a scheduled resourceplant (which includes a scheduled generating unit, a semi-scheduled generating unit, a scheduled bidirectional unit, a scheduled network service or a scheduled load, but excludes a wholesale demand response unit), comprising scheduled generating units, semi-scheduled generating units, scheduled bidirectional units, scheduled load, an ancillary service unitsunit, or a market generating unit or a market bidirectional unit, AEMO is taken to have issued scheduled network services or scheduled loads) or market generating units in which case it is a direction; or
 - (ii) any some other action (including in relation to a transmission or distribution systems and or a non-scheduled loads) AEMO is taken to have issued in which case it is a clause 4.8.9 instruction. Directions for load shedding will generally be clause 4.8.9 instructions.
- (c) A direction is an AEMO intervention event for the purposes of the NER, but a clause 4.8.9 instruction is not. The NER provisions applicable to directions (but not clause 4.8.9 instructions) include the following:
 - (i) clause 4.8.9(b) (requirement to prepare these Procedures);
 - (ii) clause 4.8.5A and 4.8.5B (notification and determination of latest time to intervene);
 - (iii) clause 3.9.3 (intervention pricing); and
 - (iv) rule 3.12 and clauses 3.15.7, 3.15.7A, 3.15.7B, and 3.15.8 (payment and settlement of compensation for *Affected Participants*, *Affected Load Participants Market Customers* and *Directed Participants*).
- (d) For convenience, these Procedures include some matters relating to the issue of *clause* 4.8.9 instructions, as well as *directions*.



2.2. NER principles

Clause 4.8.9(b) of the NER requires AEMO to develop procedures for the issue of *directions* that reflect the following principles:

- "(1) AEMO must use its reasonable endeavours to minimise any cost related to directions and compensation to Affected Participants, Affected Load Participants-and Ancillary Service

 Providersand Market Customers pursuant to clause 3.12.2 and compensation to Directed Participants pursuant to clauses 3.15.7 and 3.15.7A;
- (2) a *direction* should be revoked as soon as *AEMO* determines that the *direction* is no longer required;
- (3) AEMO must take into account any applicable guidelines issued by the Reliability Panel;
- (4) AEMO must observe its obligations under clause 4.3.2 concerning sensitive loads;
- (5) AEMO must expressly notify a *Directed Participant* that AEMO's requirement or that of another person authorised by AEMO pursuant to clause 4.8.9(a) is a *direction*."

2.3. Reliability Panel guidelines

- (a) Clause 4.8.9(b)(3) of the NER requires AEMO, when issuing *directions*, to take into account any applicable *Reliability Panel* guidelines. As at the effective date of these Procedures, there were no such guidelines applicable to the issue of *directions*.
- (b) The RP Guidelines apply for the purposes of clause 4.8.9(i) of the NER where AEMO issues *clause 4.8.9* instructions requiring load shedding across interconnected regions. The RP Guidelines form part of the power system security standards.
- (c) AEMO must use reasonable endeavours to implement *load shedding* in an equitable manner as specified in the RP Guidelines, taking into account the *power transfer capability* of the relevant *networks*.

3. Before issuing a direction

- (a) Where AEMO considers that it might have to intervene in the *market* by issuing a *direction*:
 - (i) clause 4.8.5A and clause 4.8.5B of the NER provide for processes under which AEMO notifies and updates the *market* of the circumstances that may require a direction, and determines the latest time at which AEMO would need to issue a direction to address a Requirement; and
 - (ii) AEMO will issue a direction if, by the latest time to intervene, the Requirement still exists and is not expected to be fully met by a market response or by action taken under any available reserve contract.
- (b) To determine the latest time to intervene, AEMO will first identify the *scheduled* resourceplant or market generating units that could reasonably meet the Requirement when it is expected to arise.
- (c) AEMO will then contact the *Registered Participant*(s) whose relevant *plant* has been identified by telephone to request information under clause 4.8.5A(d) and (e) of the NER,



or to confirm information previously provided to AEMO. This information may include (but is not limited to):

- (i) technical availability of the *plant* during the possible Direction Period;
- (ii) lead time required for the *plant* to deliver a response sufficient to address the Requirement;
- (iii) minimum or maximum output and run times;
- (iv) estimated costs of the *Registered Participant* in complying with a relevant *direction*, if issued.
- (d) AEMO will use this information, and any other relevant information available to AEMO, to determine which *Registered Participant(s)* should be the subject of a *direction*. As far as reasonably practicable in all the circumstances, this determination should seek to:
 - (i) minimise the costs arising from the likely compensation to *Directed Participants*, having regard to (without limitation and where relevant):
 - (A) the quantity of energy or ancillary services for which compensation would be payable to an identified Registered Participant under clause 3.15.7 of the NER; and
 - (B) the costs likely to be incurred by an identified *Registered Participant* in complying with a relevant *direction*;
 - (ii) have the least impact on the ability to maintain security of *supply* to *sensitive* loads.
- (e) AEMO's identification of one or more Registered Participants under paragraph (d) will determine the latest time by which it must issue a direction. This will usually depend on the time at which the relevant participant(s) need to initiate action to deliver sufficient response by the time the Requirement arises.

4. Issue of directions and clause 4.8.9 instructions

4.1. Verbal, participant and market notices

- (a) Unless telephone communication is not reasonably possible, AEMO control room staff will issue a verbal *direction* or *clause 4.8.9 instruction* by telephone to the designated 24-hour contact for the relevant *Registered Participant*. The AEMO operator will specify that the *Registered Participant* is being issued with a *direction* or *clause 4.8.9 instruction*, as applicable.
- (b) AEMO will confirm a verbal *direction* by issuing a written participant notice to the relevant *Registered Participant*. This is only a confirmation and *Registered Participants* are expected to act on the verbal *direction* within applicable timeframes. The recipient should immediately contact the AEMO control room operator if it considers that a written confirmation may be inconsistent with the verbal direction.
- (c) If a *direction* or *clause 4.8.9 instruction* cannot be given by telephone, AEMO will issue a written participant notice to the relevant *Registered Participant*. The notice will state that the *Registered Participant* is being issued with a *direction* or *clause 4.8.9 instruction*, as applicable.



- (d) AEMO will publish a Market Notice advising that AEMO has issued a *direction* or *clause* 4.8.9 instruction.
- (e) In the case of a *direction*, AEMO will also advise the market about the application of any intervention pricing for the purposes of clause 3.9.3 of the NER.

4.2. Content of directions and clause 4.8.9 instructions

- (a) A *direction* will specify the quantity of *energy, ancillary service* or other service to be delivered:
 - (i) by specified *plant* or at a specified point;
 - (ii) at a specified time; and
 - (iii) for a specified period or until further notice.
- (b) Clause 4.8.9 instructions for load shedding will be issued to the relevant TNSP(s) in accordance with the applicable jurisdictional load shedding procedures made under clause 4.3.2(h)(1) of the NER, and AEMO's Power System Security Guidelines (SO_OP_3715).
- (c) A *clause 4.8.9 instruction* to a TNSP to shed *load* will be consistent with the Sensitive Loads and Priority Load Shedding Schedule for the applicable *region*.

4.3. Revoking directions

- (a) AEMO will revoke a *direction* from the time when it appears to AEMO that the relevant Requirement no longer exists, or will be met by the *market* without the need for the directed action.
- (b) AEMO will revoke the *direction* by issuing a participant notice to the *Directed Participant*.
- (c) AEMO will publish a market notice when a direction is revoked.

5. Implementation of directions

- (a) Where a direction relates to scheduled plantresource, the Directed Participant must submit a dispatch offer, dispatch bid, ancillary service offerbid or rebid under which its maximum available capacity for energy or ancillary services (as applicable) is equal to the quantity specified in the direction at all times in the Direction Period.
- (b) If necessary, AEMO will apply constraint equations in *central dispatch* to give effect to the *direction* and address any technical limitations of *scheduled plantresource*.
- (c) AEMO may give additional instructions to Registered Participants in respect of scheduled plantresource as contemplated in clauses 4.9.2, and 4.9.2A, 4.9.2B and 4.9.2C of the NER.
- (d) If a *Directed Participant* makes a decision to <u>offerbid</u> energy or ancillary services which are subject to a *direction* to the *market* under rule 3.8 of the NER during the Direction Period:



- the *Directed Participant* must promptly notify AEMO of the time and quantity of energy or ancillary services that it intends to offerbid by telephone to the AEMO control room;
- (ii) AEMO must revoke or amend the *direction* as soon as reasonably practicable to reflect the notified intention; and
- (iii) the *Directed Participant* may then submit a dispatch offer, dispatch bid, ancillary service offerbid or rebid (as applicable) in accordance with rule 3.8 reflecting its intention.

6. Compliance requirements

The obligations of *Registered Participants* to comply with *directions* and *clause 4.8.9 instructions* are set out in section 118 of the NEL and in clauses 4.8.9 and 4.8.9A of the NER. *Registered Participants* are expected to be familiar with these obligations and to immediately notify AEMO of any inability to comply with a *direction* or *clause 4.8.9 instruction*.



Version release history

Version	Effective date	Summary of changes
<u>23</u>	<u>TBD</u>	Included terminology and other changes to reflect the National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021 and Rule 2023 No. 2. Effective 3 June 2024.
22	24 October 2021	Added ancillary service load to the definition of scheduled plant to reflect the wholesale demand response mechanism Rule change.
21	12 March 2021	Removed the obligation on AEMO to counteract and minimise the effect on interconnector flows during an intervention. This change is to reflect the intervention mechanism Rule change.
20	6 September 2019	Addition of rebidding requirements and factors relevant to cost minimization, complete review, redraft and renumbering. New template.
19	11 September 2014	New template
18	16 November 2011	Clarified AEMO actions in section 3, relocated section on RRN to section 5.1, clarification to section 9
17	5 July 2011	Complete review
16	1 July 2009	Change to AEMO document
earlier		NEMMCO documents