

PROCEDURES FOR ISSUE OF DIRECTIONS AND CLAUSE 4.8.9 INSTRUCTIONS

PREPARED BY: AEMO Operations
DOCUMENT REF: SO_OP_3707
VERSION: [No.]
EFFECTIVE DATE: dd month yyyy
STATUS: [DRAFT for first stage consultation]

Approved for distribution and use by:

APPROVED BY: [NAME]
TITLE: [Title]

DATE: / / 20

VERSION RELEASE HISTORY

Version	Effective Date	Summary of Changes
1.0	dd [Month] 20yy	First Issue

CONTENTS

1.	INTRODUCTION	4
1.1.	Purpose and scope	4
1.2.	Definitions and interpretation	4
1.3.	Related documents	4
2.	BACKGROUND	5
2.1.	Meaning of directions and clause 4.8.9 instructions	5
2.2.	Underlying principles	5
2.3.	Reliability Panel guidelines	6
3.	BEFORE ISSUING A DIRECTION	6
4.	ISSUE OF DIRECTIONS AND CLAUSE 4.8.9 INSTRUCTIONS	7
4.1.	Verbal, participant and market notices	7
4.2.	Content of directions and clause 4.8.9 instructions	7
4.3.	Revoking directions	8
5.	IMPLEMENTATION OF DIRECTIONS	8
6.	COMPLIANCE REQUIREMENTS	8

1. INTRODUCTION

[Drafting note for consultation version: The introductory section of this procedure has been updated consistent with AEMO's current template for NER procedures, including a new glossary. This section has not been change-marked.]

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.

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

Term	Meaning
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</i> , <i>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	<i>Transmission Network Service Provider</i>

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
N/A	Intervention Pricing Methodology (NER clause 3.9.3(e))

Reference	Title
SO_OP_3715	Power System Security Guidelines
SO_OP_3717	Procedure for the Dispatch and Activation of Reserve Contracts
<i>AEMC Reliability Panel</i>	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 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 for:
 - (i) action relating to *scheduled plant* (comprising *scheduled generating units*, *semi-scheduled generating units*, *scheduled load* or *scheduled network services*) or *market generating units* - in which case it is a *direction*; or
 - (ii) any other action (including in relation to *transmission or distribution systems* and *non-scheduled loads*) – 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*, *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* and *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)(1) 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 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 plant* or *market generating units* that could reasonably meet the Requirement when it is expected to arise. Identified options should be limited to *plant* within the same *region* as the Requirement as far as reasonably practicable, to minimise the effect on *interconnector* flows and the number of *Affected Participants* in accordance with clause 3.8.1(b)(11) of the NER.
- (c) AEMO will then contact the *Registered Participants* 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) minimise both the number of *Affected Participants* and the associated cost of compensation for *Affected Participants* and *Market Customers* under clause 3.12.2 of the NER; and
 - (iii) 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 *direction* or *clause 4.8.9 instruction* by telephone to the designated 24-hour contact for the relevant *Registered Participant*. The AEMO operator will confirm that the *Registered Participant* is being issued with a *direction* or *clause 4.8.9 instruction*, as applicable.
- (b) If the *direction* or *clause 4.8.9 instruction* cannot be given by telephone, or to confirm a *direction* 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.
- (c) AEMO will publish a Market Notice advising that AEMO has issued a *direction* or *clause 4.8.9 instruction*.
- (d) In the case of a *direction*, AEMO will also advise the market of any *intervention price dispatch intervals* 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). An instruction will specify the quantity of *load reduction* to be achieved in that TNSP's *region*:

- (i) at specified *connection points*, in a specified area or anywhere in the *region*; and
 - (ii) commencing at or effective by a specified time, or as soon as practicable.
- (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 procedure 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 plant*, the *Directed Participant* must submit a *dispatch offer, dispatch bid 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 plant*.
- (c) AEMO may give additional instructions to *Registered Participants* in respect of *scheduled plant* as contemplated in clauses 4.9.2 and 4.9.2A.

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*.