



Draft National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021

under the National Electricity Law to the extent applied by:

- (a) the National Electricity (South Australia) Act 1996 of South Australia;
- (b) the Electricity (National Scheme) Act 1997 of the Australian Capital Territory;
- (c) the Electricity - National Scheme (Queensland) Act 1997 of Queensland;
- (d) the Electricity - National Scheme (Tasmania) Act 1999 of Tasmania;
- (e) the National Electricity (New South Wales) Act 1997 of New South Wales;
- (f) the National Electricity (Victoria) Act 2005 of Victoria;
- (g) the National Electricity (Northern Territory) (National Uniform Legislation) Act 2015 of the Northern Territory; and
- (h) the Australian Energy Market Act 2004 of the Commonwealth.

The Australian Energy Market Commission makes the following Rule under the National Electricity Law.

Anna Collyer
Chairperson
Australian Energy Market Commission

Draft National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021

1 Title of Rule

This Rule is the *Draft National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021*.

2 Commencement

Schedule 1 of this Rule commences operation on [28 April 2023].

Schedule 2 of this Rule commences operation on [28 April 2023].

Schedule 3 of this Rule commences operation on [28 April 2023].

Schedule 4 of this Rule commences operation on [18 November 2021].

3 Amendment to the National Electricity Rules

The National Electricity Rules are amended as set out in Schedule 1.

4 Amendment to the National Electricity Rules

The National Electricity Rules are amended as set out in Schedule 2.

5 Amendment to the National Electricity Rules

The National Electricity Rules are amended as set out in Schedule 3.

6 Savings and Transitional Amendment to the National Electricity Rules

The National Electricity Rules are amended as set out in Schedule 4.

Schedule 1 Amendment to the National Electricity Rules

(Clause 3)

[1] Clause 2.1.2 General

In clause 2.1.2(d), omit "2.2" and substitute "2.1A".

[2] Rule 2.1A Obligation to register (non-network categories)

After rule 2.1, insert new rule 2.1A:

2.1A Obligation to register (non-network categories)

2.1A.1 Obligation to register for non-exempt generating systems and integrated resource systems

- (a) Subject to clause 2.1A.2, a person must not engage in the activity of owning, controlling or operating a *generating system* that is *connected* to a *transmission system* or *distribution system* unless that person is registered in relation to that *generating system* as either an *Integrated Resource Provider* or a *Generator* at the election of the person required to register.
- (b) Subject to clause 2.1A.2, a person must not engage in the activity of owning, controlling or operating an *integrated resource system* that is *connected* to a *transmission system* or *distribution system* unless that person is registered in relation to that *integrated resource system* as an *Integrated Resource Provider*.

2.1A.2 Exemptions from registration in respect of certain generating systems and integrated resource systems

- (a) *AEMO* may, in accordance with guidelines issued from time to time by *AEMO*, exempt a person or class of persons from the requirement to register in accordance with clause 2.1A.1, subject to such conditions as *AEMO* deems appropriate, where (in *AEMO*'s opinion) an exemption is not inconsistent with the *national electricity objective*.
- (b) Without limitation, an exemption may be given which only relieves a person or class of persons from the requirement to register in accordance with clause 2.1A.1 in relation to certain specified *generating systems* or *integrated resource systems* or classes of *generating systems* or *integrated resource systems*.
- (d) Nothing in rule 2.2 requires the classification of any *generating unit* or *integrated resource unit* which forms part of a *generating system* or *integrated resource system* in respect of which an exemption under paragraph (a) applies.

- (e) An exemption under paragraph (a) does not exempt a person from any other requirements of this rule that may be applicable to the person.

2.1A.3 Purchasing and selling electricity directly in the market

A person must not engage in the activity of selling or purchasing electricity directly in the *market* at any *connection point*, unless that person is registered by *AEMO* as a *Market Participant* and that *connection point* is classified as one of that person's *market connection points*.

2.1A.4 Providing wholesale demand response

A person must not engage in the activity of offering and providing *wholesale demand response* in accordance with Chapter 3 unless that person is registered by *AEMO* as a *Demand Response Service Provider* and the relevant response is provided by a *wholesale demand response unit* classified by that person.

2.1A.5 Providing market ancillary services

A person must not engage in the activity of offering and providing *market ancillary services* in accordance with Chapter 3 unless that person is registered by *AEMO* as an *Ancillary Service Provider* and the relevant service is provided by an *ancillary service unit* classified by that person.

[3] Rule 2.1B Registration in relation to the purchase and sale of electricity and services

After rule 2.1A, insert new rule 2.1B:

2.1B Registration in relation to the sale or purchase of electricity and services

2.1B.1 Registration as a Generator

- (a) To register as a *Generator* in respect of a *generating system*, a person must:
 - (1) obtain the approval of *AEMO* in accordance with rule 2.2 to classify each of the *generating units* that form part of the *generating system* that the person owns, operates or controls, or from which it otherwise sources electricity, as:
 - (i) a *scheduled generating unit*;
 - (ii) a *semi-scheduled generating unit*; or
 - (iii) a *non-scheduled generating unit*;
 - (2) classify the *generating units* in accordance with *AEMO's* approval as referred to in subparagraph (1);

- (3) satisfy *AEMO* that the *generating system* will be capable of meeting or exceeding its *performance standards*; and
 - (4) satisfy the requirements in rule 2.4 for registration as a *Market Participant*.
- (b) Except in relation to a proposed *generating unit*, a *Generator* must also classify each of its *generating units* as either a *market generating unit* or a *non-market generating unit*.

2.1B.2 Registration as an Integrated Resource Provider

- (a) To register as an *Integrated Resource Provider*, a person must do one or more of the following:
- (1) register in accordance with paragraph (b) as an *Integrated Resource Provider* in respect of an *integrated resource system* or a *generating system*; or
 - (2) satisfy *AEMO* that the person intends to classify, in accordance with clause 2.3.4(b) or (d), one or more *connection points* as a *market connection point*; or
 - (3) satisfy *AEMO* that the person intends to classify, in accordance with clause 2.2.8, the *connection point* for one or more *small generating units* or *small integrated resource units* as its *market connection point*,
- and in each case, must satisfy the requirements in rule 2.4 for registration as a *Market Participant*.
- (b) To register as an *Integrated Resource Provider* in respect of an *integrated resource system* or a *generating system*, a person must:
- (1) in relation to an *integrated resource system*, obtain the approval of *AEMO* to classify in accordance with rule 2.2 any *integrated resource unit* that forms part of the *integrated resource system* that the person owns, operates or controls, or from which it otherwise sources electricity, as:
 - (i) a *scheduled integrated resource unit*; or
 - (ii) a *non-scheduled integrated resource unit*;
 - (2) in relation to an *integrated resource system* or *generating system*, obtain the approval of *AEMO* to classify in accordance with rule 2.2 any *generating unit* that forms part of the *integrated resource system* or *generating system* that the person owns, operates or controls, or from which it otherwise sources electricity, as:
 - (i) a *scheduled generating unit*;
 - (ii) a *semi-scheduled generating unit*; or

- (iii) a *non-scheduled generating unit*;
- (3) classify the relevant *integrated resource units* or *generating units* in accordance with *AEMO's* approval as referred to in subparagraph (1) or (2); and
- (4) satisfy *AEMO* that the *integrated resource system* or *generating system* will be capable of meeting or exceeding its *performance standards*.
- (c) Except in relation to a proposed *generating unit*, an *Integrated Resource Provider* must also classify each of its *generating units* as either a *market generating unit* or a *non-market generating unit*.
- (d) Except in relation to a proposed *integrated resource unit*, an *Integrated Resource Provider* must also classify each of its *integrated resource units* as either a *market integrated resource unit* or a *non-market integrated resource unit*.

2.1B.3 Expected closure year notices

- (a) A person registered as:
 - (1) a *Generator* or *Integrated Resource Provider* in respect of a *scheduled generating unit* or *semi-scheduled generating unit*;
or
 - (2) an *Integrated Resource Provider* in respect of a *scheduled integrated resource unit*,must notify *AEMO* of the year in which the person expects the relevant *generating unit* or *integrated resource unit* to cease supplying electricity to the *transmission network* or *distribution network* at its *connection point (expected closure year)*.
- (b) The *Generator* or *Integrated Resource Provider* in respect of a *scheduled generating unit*, *semi-scheduled generating unit* or *scheduled integrated resource unit* must:
 - (1) notify *AEMO* of the *expected closure year* for the unit promptly after *AEMO* approves classification of the unit under rule 2.2; and
 - (2) immediately notify *AEMO* of any change to the *expected closure year* for the unit.

2.1B.4 Registration as a Customer

- (a) To register as a *Customer*, a person must:
 - (1) satisfy the requirements in rule 2.4 for registration as a *Market Participant*; and
 - (2) satisfy *AEMO* (acting reasonably) that:

- (i) the person intends to classify, in its capacity as a *Customer*, one or more *connection points* as one of its *market connection points*; or
 - (ii) registration is for the purpose of acting as a *RoLR*.
- (b) A *Customer's* activities only relate to *connection points* it has classified (in its capacity as a *Customer*) as *market connection points* or its activities as a *RoLR* and only while it is also registered with *AEMO* as a *Customer*.

2.1B.5 Registration as a Demand Response Service Provider

- (a) To register as a *Demand Response Service Provider*, a person must:
- (1) satisfy the requirements in rule 2.4 for registration as a *Market Participant*; and
 - (2) obtain the approval of *AEMO* to classify:
 - (i) a *qualifying load* as a *wholesale demand response unit* in accordance with clause 2.3.6; or
 - (ii) *plant* as an *ancillary service unit* in accordance with clause 2.3D.1.
- (b) A *Demand Response Service Provider's* activities only relate to *qualifying loads* it has classified as *wholesale demand response units* or *plant* it has classified as *ancillary service units* (in each case in its capacity as a *Demand Response Service Provider*) and only while it is also registered with *AEMO* as a *Demand Response Service Provider*.

[4] Rule 2.2 Generator

Omit the heading of rule 2.2 and substitute:

2.2 Classification of generating units and integrated resource units

[5] Clause 2.2.1 Registration as a Generator

Omit clause 2.2.1 in its entirety and substitute:

2.2.1 [Deleted]

[6] Clause 2.2.2 Scheduled Generator

Omit the heading of clause 2.2.2 and substitute:

2.2.2 Scheduled generating units and scheduled integrated resource units

[7] Clause 2.2.2 Scheduled generating units and scheduled integrated resource units

After clause 2.2.2(a) insert:

- (a1) An *integrated resource unit* which has a *nameplate rating* of 5 MW or greater for either production or consumption or is part of a group of *integrated resource units connected* at a common *connection point* with a combined *nameplate rating* of 5 MW or greater for either production or consumption must be classified as a *scheduled integrated resource unit* unless *AEMO* approves its classification as:
- (1) a *non-scheduled integrated resource unit* in accordance with clause 2.2.3;
 - (2) a *scheduled generating unit* and a *scheduled load* in accordance with paragraph (b2);
 - (3) a *semi-scheduled generating unit* and a *scheduled integrated resource unit* in accordance with paragraph (b4); or
 - (4) a *semi-scheduled generating unit* in accordance with clause 2.2.7(c1).

[8] Clause 2.2.2 Scheduled generating units and scheduled integrated resource units

Omit clause 2.2.2(b) and substitute:

- (b) A person must not classify a *generating unit* or *integrated resource unit* as a *scheduled generating unit* or *scheduled integrated resource unit* unless it has obtained the approval of *AEMO* to do so. Where the relevant classification is required under paragraph (a) or (a1), *AEMO* must approve the classification if it is satisfied that:
- (1) the person has submitted data in accordance with schedule 3.1;
 - (2) the person has adequate communications and/or telemetry to support the issuing of *dispatch instructions* and the audit of responses; and
 - (3) in the case of an *integrated resource unit*, the unit is capable of transitioning linearly from consuming to producing electricity and vice versa.

[9] Clause 2.2.2 Scheduled generating units and scheduled integrated resource units

Omit clause 2.2.2(b1) and substitute:

- (b1) *AEMO* may, on an application being made for the purposes of paragraph (b), approve the following classifications on such terms and conditions as *AEMO* considers appropriate and if it is satisfied of the matters in paragraphs (b)(1) to (3):
- (1) classification as a *scheduled generating unit* of:
 - (i) a *generating unit* with a *nameplate rating* of less than 30 MW; or
 - (ii) a *generating unit* that is part of a group of *generating units connected* at a common *connection point* with a combined *nameplate rating* of less than 30 MW; or
 - (2) classification as a *scheduled integrated resource unit* of:
 - (i) an *integrated resource unit* with a *nameplate rating* of less than 5MW for either production or consumption; or
 - (ii) a group of *integrated resource units connected* at a common *connection point* with a combined *nameplate rating* of less than 5 MW for either production or consumption.

[10] Clause 2.2.2 Scheduled generating units and scheduled integrated resource units

After clause 2.2.2(b1) insert:

- (b2) *AEMO* must approve (and must only approve) a request for classification of an *integrated resource unit* as a *scheduled generating unit* if:
- (1) *AEMO* is satisfied that the *integrated resource unit* is not capable of transitioning linearly from consuming to producing electricity and vice versa; and
 - (2) *AEMO* determines in accordance with clause 2.3.4A to classify that part of the *plant* that consumes electricity as a *scheduled load*.
- (b3) In relation to an application under paragraph (b2) to classify an *integrated resource unit* as a *scheduled generating unit*, *AEMO* may approve the classification on such terms and conditions as *AEMO* considers appropriate.
- (b4) *AEMO* may, on an application being made for the purposes of paragraph (a1)(3), approve on such terms and conditions as *AEMO* considers appropriate, classification of an *integrated resource unit* that is a *coupled production unit* as:

- (1) a *semi-scheduled generating unit* in respect of any part of the *plant* that satisfies the criteria for classification as a *semi-scheduled generating unit* under clause 2.2.7(b); and
- (2) a *scheduled integrated resource unit* in respect of any part of the *plant* that satisfies the criteria for classification under this clause or clause 2.2.3 as applicable.

**[11] Clause 2.2.2 Scheduled generating units and
scheduled integrated resource units**

In clause 2.2.2(c), omit "clause 2.2.2(b1)" and substitute "paragraph (b1), (b3) or (b4)".

**[12] Clause 2.2.2 Scheduled generating units and
scheduled integrated resource units**

Omit clause 2.2.2(e) and substitute:

- (e) A *Generator* or *Integrated Resource Provider* is taken to be:
 - (1) a *Scheduled Generator* only in so far as its activities relate to any *scheduled generating unit*; and
 - (2) a *Scheduled Integrated Resource Provider* only in so far as its activities relate to any *scheduled integrated resource unit*.

**[13] Clause 2.2.2 Scheduled generating units and
scheduled integrated resource units**

Omit clause 2.2.2(f) and substitute:

- (f) A *Scheduled Generator* must operate any *scheduled generating unit*, and a *Scheduled Integrated Resource Provider* must operate any *scheduled integrated resource unit*, in accordance with the coordinated *central dispatch* process operated by *AEMO* under the provisions of Chapter 3.

**[14] Clause 2.2.2 Scheduled generating units and
scheduled integrated resource units**

Omit clause 2.2.2(g).

**[15] Clause 2.2.2 Scheduled generating units and
scheduled integrated resource units**

Omit clause 2.2.2(h).

[16] Clause 2.2.3 Non-Scheduled Generator

Omit the heading of clause 2.2.3 and substitute:

2.2.3 Non-scheduled generating units and non-scheduled integrated resource units

[17] Clause 2.2.3 Non-scheduled generating units and non-scheduled integrated resource units

After clause 2.2.3(a) insert:

- (a1) An *integrated resource unit* with a *nameplate rating* of less than 5 MW for both production and consumption (not being part of a group of *integrated resource units* described in clause 2.2.2(a1)) must be classified as a *non-scheduled integrated resource unit* unless *AEMO* approves its classification as a *scheduled integrated resource unit* under clause 2.2.2(b).

[18] Clause 2.2.3 Non-scheduled generating units and non-scheduled integrated resource units

Omit clause 2.2.3(b) and substitute:

- (b) A person must not classify a *generating unit* as a *non-scheduled generating unit* or an *integrated resource unit* as a *non-scheduled integrated resource unit* unless the person has obtained the approval of *AEMO* to do so. *AEMO* must approve the classification if it is satisfied that:
 - (1) in the case of a *generating unit*, the primary purpose for which the relevant *generating unit* operates is local use and the aggregate *sent out generation* at its *connection point* rarely, if ever, exceeds 30 MW; or
 - (2) the physical and technical attributes of the relevant *generating unit* or *integrated resource unit* are such that it is not practicable for it to participate in *central dispatch*.

[19] Clause 2.2.3 Non-scheduled generating units and non-scheduled integrated resource units

Omit clause 2.2.3(c) and substitute:

- (c) If, in relation to an application under paragraph (b), in *AEMO's* opinion it is necessary for any reason (including *power system security*) for the relevant *Generator* or *Integrated Resource Provider* to comply with some of the obligations of a *Scheduled Generator* or *Semi-Scheduled Generator* for that *generating unit* or *Scheduled Integrated Resource Provider* for that *integrated resource unit*, *AEMO* may approve the classification on such terms and conditions as *AEMO* considers reasonably necessary.

[20] Clause 2.2.3 Non-scheduled generating units and non-scheduled integrated resource units

In clause 2.2.3(e), after "A *Generator*" insert "or an *Integrated Resource Provider*".

[21] Clause 2.2.3 Non-scheduled generating units and non-scheduled integrated resource units

After clause 2.2.3(e), insert:

- (e1) An *Integrated Resource Provider* is taken to be a *Non-Scheduled Integrated Resource Provider* only in so far as its activities relate to a *non-scheduled integrated resource unit*.

[22] Clause 2.2.3 Non-scheduled generating units and non-scheduled integrated resource units

Omit clause 2.2.3(f) and substitute:

- (f) Subject to clause 3.8.2(e), *non-scheduled generating units* and *non-scheduled integrated resource units* do not participate in the co-ordinated *central dispatch* process operated by *AEMO*.

[23] Clause 2.2.4 Market Generator

Omit the heading of clause 2.2.4 and substitute:

2.2.4 Market generating units

[24] Clause 2.2.4 Market generating units

Omit clause 2.2.4(a) and substitute:

- (a) A *generating unit* must be classified as a *market generating unit* unless *AEMO* approves its classification as a *non-market generating unit* in accordance with clause 2.2.5.

[25] Clause 2.2.4 Market generating units

In clause 2.2.4(b), after "A *Generator*" insert "or an *Integrated Resource Provider*".

[26] Clause 2.2.4 Market generating units

In clause 2.2.4(c), omit "at the *spot price* applicable at the *connection point* as determined for each *trading interval*".

[27] Clause 2.2.4 Market generating units

Omit clause 2.2.4(d) (excluding the note) and substitute:

- (d) A *Market Generator* must purchase all electricity *supplied* through the *national grid* to the *connection point* for each of its *market generating units* from the *spot market* and make payments to *AEMO* for such electricity in accordance with the provisions of Chapter 3.

[28] Clause 2.2.5 Non-Market Generator

Omit the heading of clause 2.2.5 and substitute:

2.2.5 Non-market generating units

[29] Clause 2.2.5 Non-market generating units

Omit clause 2.2.5(a) and substitute:

- (a) A person must not classify a *generating unit* as a *non-market generating unit* unless the person has obtained the approval of *AEMO* to do so.

[30] Clause 2.2.5 Non-market generating units

After clause 2.2.5(a), insert new clause 2.2.5(a1):

- (a1) *AEMO* must approve a request for classification of a *generating unit* as a *non-market generating unit* if (and only if):
 - (1) the *generating unit* is classified as a *non-scheduled generating unit*; and
 - (2) *AEMO* is satisfied that a *Market Customer* has classified the *connection point* for the *generating unit* as one of its *market connection points* under clause 2.3.4.

[31] Clause 2.2.5 Non-market generating units

In clause 2.2.5(b), after "A *Generator*" insert "or *Integrated Resource Provider*".

[32] Clause 2.2.5A Market integrated resource units

After clause 2.2.5, insert new clause 2.2.5A:

2.2.5A Market integrated resource units

- (a) An *integrated resource unit* must be classified as a *market integrated resource unit* unless *AEMO* approves its classification as a *non-market integrated resource unit* in accordance with clause 2.2.5B.
- (b) An *Integrated Resource Provider* must sell all *sent out generation* from its *market integrated resource units* through the *spot market* and accept payments from *AEMO* for *sent out generation* from its *market integrated resource units* in accordance with the provisions of Chapter 3.

Note

The AEMC proposes to recommend that clause 2.2.5A(b) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

- (c) An *Integrated Resource Provider* must purchase all electricity supplied through the *national grid* to the *connection point* for each of its *market integrated resource units* from the *spot market* and make payments to *AEMO* for such electricity in accordance with the provisions of Chapter 3.

Note

The AEMC proposes to recommend that clause 2.2.5A(c) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

[33] 2.2.5B Non-market integrated resource units

After clause 2.2.5A, insert new clause 2.2.5B:

2.2.5B Non-market integrated resource units

- (a) A person must not classify an *integrated resource unit* as a *non-market integrated resource unit* unless the person has obtained the approval of *AEMO* to do so.
- (b) *AEMO* must approve a request for classification of an *integrated resource unit* as a *non-market integrated resource unit* if (and only if):
- (1) the *integrated resource unit* is classified as a *non-scheduled integrated resource unit*; and
 - (2) *AEMO* is satisfied that a *Market Customer* has classified the *connection point* for the *integrated resource unit* as one of its *market connection points* under clause 2.3.4.
- (c) An *Integrated Resource Provider* is taken to be a *Non-Market Integrated Resource Provider* only in so far as its activities relate to any *non-market integrated resource unit*.
- (d) A *Non-Market Integrated Resource Provider* is not entitled to receive payment from *AEMO* for *sent out generation* except for any compensation that may be payable to it as a *Directed Participant* or *Affected Participant*.

[34] Clause 2.2.6 Ancillary services generating unit

Omit clause 2.2.6 in its entirety and substitute:

2.2.6 [Deleted]

[35] Clause 2.2.7 Semi-Scheduled Generator

Omit the heading of clause 2.2.7 and substitute:

2.2.7 Semi-scheduled generating units

[36] Clause 2.2.7 Semi-scheduled generating units

In clause 2.2.7(b), after "*semi-scheduled generating unit*" insert "or (for the purposes of paragraph (c1)) an *integrated resource unit*".

[37] Clause 2.2.7 Semi-scheduled generating units

After clause 2.2.7(c), insert:

- (c1) *AEMO* may, on an application being made for the purposes of paragraph (b), approve on such terms and conditions as *AEMO* considers appropriate, classification of an *integrated resource unit* that is a *coupled production unit* as a *semi-scheduled generating unit* if *AEMO* is satisfied that:
 - (1) the output of some or all *generating plant* comprised in the *integrated resource unit* is *intermittent*;
 - (2) except for *auxiliary load*, the *integrated resource unit* will not consume electricity delivered from the *national grid* at the *connection point* for the *integrated resource unit*; and
 - (3) the person has satisfied the requirements in paragraphs (c)(1) to (3).
- (c2) A person must comply with any terms and conditions imposed by *AEMO* as part of an approval under paragraph (c1).

Note

The AEMC proposes to recommend that clause 2.2.7(c2) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

[38] Clause 2.2.7 Semi-scheduled generating units

In clause 2.2.7(d), omit "person" and substitute "persons".

[39] Clause 2.2.7 Semi-scheduled generating units

In clause 2.2.7(g), after "A *Generator*", insert "or *Integrated Resource Provider*".

[40] Clause 2.2.7 Semi-scheduled generating units

Omit clause 2.2.7(i).

[41] Clause 2.2.7 Semi-scheduled generating units

Omit clause 2.2.7(j).

[42] Clause 2.2.7 Semi-scheduled generating units

Omit clause 2.2.7(k).

[43] Clause 2.2.7 Semi-scheduled generating units

Omit clause 2.2.7(l).

[44] New clause 2.2.8 Small generating units and small integrated resource units

After clause 2.2.7, insert new clause 2.2.8:

2.2.8 Small generating units and small integrated resource units

- (a) If electricity *supplied* through the *national grid* to or from a *connection point* that *connects* a *small generating unit* or a *small integrated resource unit* to the *national grid* is purchased or sold by any person (**end user**), an *Integrated Resource Provider* may, with the consent of the end user, classify the *connection point* as one of its *market connection points*.
- (b) An *Integrated Resource Provider* is taken to be a *Small Resource Aggregator* only in so far as its activities relate to *connection points* for *small generating units* or *small integrated resource units* that it has classified as *market connection points*.
- (c) A *Small Resource Aggregator* must sell all *sent out generation* from its *market connection points* through the *spot market* and accept payments from *AEMO* for the electricity in accordance with Chapter 3.

Note

The AEMC proposes to recommend that clause 2.2.8(c) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

- (d) A *Small Resource Aggregator* must purchase all electricity supplied through the *national grid* to its *market connection points* from the *spot market* and make payments to *AEMO* for the electricity in accordance with Chapter 3.

Note

The AEMC proposes to recommend that clause 2.2.8(d) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

[45] Rule 2.3 Customer

Omit the heading of rule 2.3 and substitute:

2.3 Connection point classifications

[46] Clause 2.3.1 Registration as a Customer

Omit clause 2.3.1 in its entirety and substitute:

2.3.1 [Deleted]

[47] Clause 2.3.1A Jurisdictional classification requirements

After clause 2.3.1, insert a new clause 2.3.1A:

2.3.1A Jurisdictional classification requirements

A person may not classify any *connection point* unless the person satisfies the requirements of the *participating jurisdiction* in which the *connection point* is situated so that (subject to compliance with the *Rules*) the person is permitted to purchase or sell electricity in the *spot market* in relation to that *connection point*.

[48] Clause 2.3.2 First-Tier Customer

Omit clause 2.3.2 in its entirety and substitute:

2.3.2 [Deleted]

[49] Clause 2.3.3 Second Tier Customer

Omit clause 2.3.3 in its entirety and substitute:

2.3.3 [Deleted]

[50] Clause 2.3.4 Market Customer

Omit clause 2.3.4 in its entirety and substitute:

2.3.4 Market connection point classification

(a) *A connection point:*

(1) which *connects* any *market generating unit* to the *national grid* is taken to be a *market connection point* of the *Market*

- Participant* which has classified the *generating unit* as a *market generating unit*;
- (2) which *connects* any *market integrated resource unit* to the *national grid* is taken to be a *market connection point* of the *Market Participant* which has classified the *integrated resource unit* as a *market integrated resource unit*;
 - (3) which has been classified by an *Integrated Resource Provider* under clause 2.2.8(a) is taken to be a *market connection point* of the *Integrated Resource Provider*; or
 - (4) where the *network service connected* at that *connection point* is a *market network service* is taken to be a *market connection point* of the *Market Participant* that has classified the *network service* as a *market network service*.
- (b) Subject to paragraph (c), if electricity *supplied* through the *national grid* to or from a *connection point* is purchased or sold by any person (**end user**), that *connection point* must be classified as a *market connection point* of:
- (1) the end user (if registered as a *Customer* or an *Integrated Resource Provider*); or
 - (2) with the consent of the end user, a *Customer* or an *Integrated Resource Provider*.
- (c) Paragraph (b) does not apply to any *connection point*:
- (1) taken to be a *market connection point* of another *Market Participant* under paragraph (a);
 - (2) classified by a *Local Retailer* in accordance with paragraph (i); or
 - (3) that is a *child connection point*.
- (d) A *Customer* or an *Integrated Resource Provider* may, with the consent of the *retail customer* at a *child connection point*, classify the *connection point* as one of its *market connection points*.
- (e) A *Customer* is taken to be a *Market Customer* only in so far as its activities relate to any *market connection point*.
- (f) An *Integrated Resource Provider* is taken to be a *Market Customer* only in so far as its activities relate to any *market connection point* it has classified under paragraph (b) or (d).
- (g) A *Market Customer* must purchase all electricity *supplied* to its *market connection points* from the *spot market* and make payments to *AEMO* for the electricity in accordance with Chapter 3.

Note

The AEMC proposes to recommend that clause 2.3.4(g) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

- (g1) A *Market Customer* must sell all *sent out generation* from its *market connection points* through the *spot market* and accept payments from *AEMO* for the electricity in accordance with Chapter 3.

Note

The AEMC proposes to recommend that clause 2.3.4(g1) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

- (h) **[Deleted]**

Note

This clause is classified as a civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6(1) and Schedule 1 of the National Electricity (South Australia) Regulations.)

- (i) A *Customer* who is also a *Local Retailer* must classify any *load* at a *connection point* in its *local area* as a *market connection point* if electricity *supplied* through the *national grid* to or from that *connection point* is purchased or sold by a *franchise customer*.

[51] Clause 2.3.4A Scheduled load classification

After clause 2.3.4, insert a new clause 2.3.4A:

2.3.4A Scheduled load classification

- (a) A *Market Customer* or an *Integrated Resource Provider* may request *AEMO* to classify *plant* (excluding *generating plant*) *connected* at one of its *market connection points* as a *scheduled load*.
- (b) An *integrated resource unit* that has been classified as a *scheduled generating unit* under clause 2.2.2(b2) must be classified as a *scheduled load* in relation to that part of the *plant* that consumes electricity.
- (c) *AEMO* must classify *plant* (subject to paragraph (b), excluding *generating plant*) as a *scheduled load* if it is satisfied that the *Market Customer* or *Integrated Resource Provider*:
- (1) has submitted data in accordance with schedule 3.1;
 - (2) has adequate communications and/or telemetry to support the issuing of *dispatch instructions* and the audit of responses; and

- (3) is required by paragraph (b) to classify the *plant* as a *scheduled load* or has requested that the *plant* be so classified and has not withdrawn that request.

[52] Clause 2.3.5 Ancillary services load

Omit clause 2.3.5 in its entirety and substitute:

2.3.5 [Deleted]

[53] Clause 2.3.6 Wholesale demand response units

In clause 2.3.6(a), omit "the *load*" and substitute "the *qualifying load*".

[54] Clause 2.3.6 Wholesale demand response units

In clause 2.3.6(d), after "within 15 *business days* of the request,", insert "*AEMO* may, on notice to the *Demand Response Service Provider* at any time after expiry of that period, elect to treat the application as withdrawn and".

[55] Clause 2.3.6 Wholesale demand response units

Omit clause 2.3.6(e) and substitute:

- (e) *AEMO* must, subject to paragraph (f), approve the classification request under paragraph (a) if *AEMO* is reasonably satisfied that:
 - (1) the request is made in respect of a *qualifying load*;
 - (2) the *qualifying load* is able to be used to provide *wholesale demand response* in accordance with the *Rules*;
 - (3) the *qualifying load* is capable of providing a quantity of *wholesale demand response* at least equal to the *maximum responsive component*;
 - (4) the *Demand Response Service Provider* has adequate communications and/or telemetry in place to support the issuing of *dispatch instructions* in respect of the *qualifying load*;
 - (5) the *baseline methodology*, when applied to the *qualifying load* and using the proposed *baseline settings* and historical *metering data* for the *qualifying load*:
 - (i) produces a *baseline* that satisfies the *baseline methodology metrics*; and
 - (ii) otherwise qualifies for application to the *wholesale demand response unit* having regard to any criteria in the *wholesale demand response guidelines*;
 - (6) the *Demand Response Service Provider* has submitted data in accordance with schedule 3.1; and

- (7) the *qualifying load* satisfies each other requirement in the *wholesale demand response guidelines* for classification as a *wholesale demand response unit*.

[56] Clause 2.3.6 Wholesale demand response units

Omit clause 2.3.6(f) and substitute:

- (f) *AEMO* must not give approval to a person under paragraph (e) in respect of a *qualifying load* that is classified as an *ancillary service unit* by a different person.

[57] Clause 2.3.6 Wholesale demand response units

In clause 2.3.6(g), omit "load" and substitute "*qualifying load*".

[58] Clause 2.3.6 Wholesale demand response units

Omit clause 2.3.6(k) and substitute:

- (k) A *Demand Response Service Provider* must notify *AEMO* if any of its *wholesale demand response units* ceases to be a *qualifying load* as soon as practicable and in any event no later than 10 *business days* after becoming aware that the *wholesale demand response unit* ceases to be a *qualifying load*.

[59] Clause 2.3.6 Wholesale demand response units

Omit clause 2.3.6(l) and substitute:

- (l) Where a *Demand Response Service Provider* gives *AEMO* a notice under paragraph (k) in respect of a *wholesale demand response unit*, the *wholesale demand response unit* ceases to be classified as a *wholesale demand response unit* from the time the notice is given.

[60] Clause 2.3.6 Wholesale demand response units

Omit clause 2.3.6(m) and substitute:

- (m) In this Chapter:
- (1) a *connection point* is a *qualifying load* if:
- (i) the *connection point* comprises a single *connection point* or a *parent connection point* in respect of all its associated *child connection points* that are not *market connection points*;
 - (ii) if the *connection point* is a *child connection point*, it is also a *market connection point*;
 - (iii) the *connection point* is not a *small customer load*;

- (iv) the *connection point* is not a *market connection point* for a *scheduled load*;
 - (v) the *Demand Response Service Provider* has the consent of the *retail customer* at the *connection point* to provide *wholesale demand response* by means of that *connection point*;
 - (vi) the *Demand Response Service Provider* has arrangements for the provision of *wholesale demand response* by means of that *connection point*; and
 - (vii) the *connection point* has a type 1, 2, 3, or 4 *metering installation*; and
- (2) a *connection point* is a ***small customer load*** if a *retail customer* at the *connection point*, or any *connection point* associated with the *connection point* (including any *child connection point*):
- (i) is or would be a *small customer* in relation to premises delivered electrical power at the *connection point*; and
 - (ii) the *retail customer* has not entered into an agreement with its retailer in accordance with rule 5(2)(a) of the *National Energy Retail Rules* to aggregate the premises referred to in subparagraph (2)(i) with other premises.

Note

Only a business customer within the meaning of the *National Energy Retail Law* can enter into an agreement with its *retailer* in accordance with rule 5(2)(a) of the *National Energy Retail Rules*.

[61] Rule 2.3A Small Generation Aggregator

Omit rule 2.3A in its entirety and substitute:

2.3A [Deleted]

[62] Rule 2.3B Demand Response Service Provider

Omit rule 2.3B in its entirety and substitute:

2.3B [Deleted]

[63] Rule 2.3C [Not used]

After rule 2.3B insert:

2.3C [Not used]

[64] Rule 2.3D Ancillary Service Units and Ancillary Service Providers

After rule 2.3C, insert new rule 2.3D:

2.3D Ancillary Service Units and Ancillary Service Providers

2.3D.1 Classification of ancillary services units

- (a) If a:
- (1) *Market Participant* in respect of *plant connected* at a *market connection point* for which it is the *financially responsible Market Participant*; or
 - (2) *Demand Response Service Provider* in respect of *plant connected* at a *market connection point*,
- wishes to use the *plant* to provide *market ancillary services* in accordance with Chapter 3, the *Market Participant* must apply to *AEMO* for approval to classify the relevant *plant* as an *ancillary service unit*.
- (b) An application under paragraph (a) must be in the form prescribed by *AEMO* and must:
- (1) specify the *market ancillary services* which the applicant wishes to provide using the relevant *plant*;
 - (2) in the case of an application made by a *Demand Response Service Provider*, not be in respect of a *scheduled load*;
 - (3) in the case of any application, not be in respect of a *qualifying load* that is classified as a *wholesale demand response unit* by a different person;
 - (4) identify the relevant *plant* at the *connection point* to be used by the applicant to provide *market ancillary services*; and
 - (5) demonstrate how the relevant *plant* identified in subparagraph (4) has the required capability to be used to provide *market ancillary services* and will be capable of meeting or exceeding the relevant *performance standards* and specifications to *AEMO's* satisfaction.
- (c) *AEMO* must, within 5 *business days* of receiving an application under paragraph (a), advise the applicant of any further information or clarification which is required in support of its application if, in *AEMO's* reasonable opinion, the application:
- (1) is incomplete; or

- (2) contains information upon which *AEMO* requires clarification.
- (d) If the applicant does not provide further information or clarification required pursuant to paragraph (c) to *AEMO's* satisfaction within 15 *business days* of the request, *AEMO* may, on notice to the applicant at any time after expiry of that period, elect to treat the application as withdrawn and the applicant will be taken to have withdrawn the application.
- (e) If *AEMO* is reasonably satisfied that:
 - (1) the relevant *plant* is able to be used to provide the *market ancillary services* referred to in the application in accordance with the *market ancillary service specification*;
 - (2) the applicant has adequate communication and/or telemetry to support the issuing of *dispatch instructions* and the audit of responses, and
 - (3) in the case of an application made by a *Market Customer* or *Demand Response Service Provider*, the applicant has an arrangement with the *retail customer* at the relevant *connection point* for the supply of *market ancillary services*,

AEMO must approve the classification of the *ancillary service unit* in respect of the particular *market ancillary services*.
- (f) If *AEMO* approves the classification of *plant* as an *ancillary service unit*, *AEMO* may impose on the relevant applicant such terms and conditions as *AEMO* considers necessary to ensure that the provisions of the *Rules* applying to *market ancillary services* can be met.
- (g) A *Market Participant* is taken to be an *Ancillary Service Provider* only in so far as its activities relate to *plant* it has classified as an *ancillary service unit*.

2.3D.2 Ancillary Service Providers

- (a) An *Ancillary Service Provider* must comply with any terms and conditions imposed by *AEMO* under clause 2.3D.1(f).

Note

The AEMC proposes to recommend that clause 2.3D.2(a) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

- (b) An *Ancillary Service Provider*:
 - (1) must ensure that the *market ancillary services* provided using the relevant *ancillary services unit* are provided in accordance with the co-ordinated *central dispatch* process operated by

AEMO under Chapter 3 and in accordance with the *market ancillary service specification*;

Note

The AEMC proposes to recommend that clause 2.3D.2(b)(1) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

- (2) may submit to *AEMO market ancillary service bids* in respect of the *ancillary service unit* in accordance with Chapter 3; and
- (3) if the *Ancillary Service Provider* submits a *market ancillary service bid* in respect of the relevant *ancillary service unit*, must comply with *dispatch instructions* from *AEMO* in accordance with the *Rules*.

Note

The AEMC proposes to recommend that clause 2.3D.2(b)(3) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

- (c) An *Ancillary Service Provider* with an *ancillary service unit* must only sell the *market ancillary services* produced using that *ancillary service unit* in accordance with Chapter 3.

Note

The AEMC proposes to recommend that clause 2.3D.2(c) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

- (d) An *Ancillary Service Provider* is not entitled to receive payment from *AEMO* for *market ancillary services* except where those *market ancillary services* are produced using an *ancillary service unit* in accordance with Chapter 3 or pursuant to a *direction* or *clause 4.8.9 instruction*.
- (e) A *Market Participant* must immediately notify *AEMO* if *plant* it has classified as an *ancillary service unit* ceases to meet the requirements for classification under clause 2.3D.1.

[65] Clause 2.4.1 Registration as a category of Market Participant

Omit clause 2.4.1(a) and substitute:

- (a) A *Market Participant* is a person in any one or more of the following categories:
 - (1) *Market Generator*;

- (2) *Integrated Resource Provider* (other than a *Non-Market Integrated Resource Provider*);
- (3) *Market Customer*;
- (4) *Demand Response Service Provider*;
- (5) *Market Network Service Provider*.

[66] Clause 2.4.1 Registration as a category of Market Participant

Omit clause 2.4.1(b) and substitute "[Deleted]".

[67] Clause 2.4.2 Eligibility

In clause 2.4.2(a), after "person wishes to participate in the *market*" insert ", taking into account the classifications intended by the applicant and notified at the time of registration".

[68] Clause 2.4.2 Eligibility

Omit clause 2.4.2(b) and substitute "[deleted]".

[69] Clause 2.4.2 Eligibility

Omit clause 2.4.2(c) and substitute:

- (c) also be registered as a *Network Service Provider*, for registration as a *Market Network Service Provider*;

[70] Clause 2.4.2 Eligibility

In clause 2.4.2(d), after "obligations set out in the *Rules*" insert ", taking into account the classifications intended by the applicant and notified at the time of registration".

[71] Clause 2.4A.2 Eligibility

Omit clause 2.4A.2(b)(2) and substitute:

- (2) a *Generator* or *Integrated Resource Provider* who is only appointed, or is proposed to be only appointed, as *Metering Coordinator* in respect of one or more *connection points* or proposed *connection points* that *connect* a *Generator's* or *Integrated Resource Provider's* *generating unit* or *integrated resource unit* to a *distribution network* (excluding, to avoid doubt, a *small generating unit* or *small integrated resource unit* classified by a *Small Resource Aggregator*).

[72] Clause 2.4A.2 Eligibility

Omit clause 2.4A.2(c) and substitute:

- (c) Subparagraph (a)(4) does not apply to a *Generator* or *Integrated Resource Provider* who is only appointed, or is proposed to be only appointed, as *Metering Coordinator* in respect of one or more *connection points* or proposed *connection points* that *connect a Generator's or Integrated Resource Provider's generating unit or integrated resource unit to a distribution network*.

[73] Clause 2.5.3 Scheduled Network Service

In clause 2.5.3(e)(4), omit "*dispatch offers*" and substitute "*dispatch bids*".

[74] Rule 2.7 Intention to Commence Activities or Functions

In rule 2.7(d), after "*Customer, Generator,*" insert "*Integrated Resource Provider,*".

[75] Clause 2.8.1 Rights and obligations

In clause 2.8.1(a), omit "rules 2.2 to 2.7" and substitute "rules 2.1A to 2.7".

[76] Clause 2.8.1 Rights and obligations

In clause 2.8.1(b), omit "rules 2.2 to 2.7" and substitute "rules 2.1A to 2.7".

[77] Clause 2.9.1 Applications for Registration

In clause 2.9.1(c), after "within 15 *business days* of the request," insert "*AEMO* may, on notice to the applicant at any time after expiry of that period, elect to treat the application as withdrawn and".

[78] Clause 2.9.2 Registration as a Registered Participant

In clause 2.9.2(a)(3), after "for registration as a *Generator*", insert "or *Integrated Resource Provider*".

[79] Clause 2.9.3 Registration as an Intermediary

In clause 2.9.3(a), after "*Rules* as a *Generator*" insert ", *Integrated Resource Provider*".

[80] Clause 2.9.3 Registration as an Intermediary

In clause 2.9.3(a), omit "may apply to *AEMO* or the *AER* respectively" and substitute "may apply to *AEMO* or the *AER*, as applicable".

[81] Clause 2.9.3 Registration as an Intermediary

In clause 2.9.3(c), after "with respect to the relevant *generating system*", insert ", *integrated resource system*".

[82] Clause 2.9.3 Registration as an Intermediary

In clause 2.9.3(h), after "represents one or more discrete *generating systems*", insert ", *integrated resource systems*".

[83] Rule 2.9A Transfer of Registration

Omit the heading of rule 2.9A and substitute:

2.9A Transfer of Registration to another person

[84] Clause 2.9A.2 Applications for Transfer of Registration

In clause 2.9A.2(d), after "within 15 *business days* of the request, then", insert "*AEMO* may, on notice to the Transferor and Transferee at any time after expiry of that period, elect to treat the application as withdrawn and".

[85] New rule 2.9B Transfer to Integrated Resource Provider and reclassification

After clause 2.9A.3, insert a new rule 2.9B:

2.9B Transfer to Integrated Resource Provider and reclassification

- (a) A person registered as a *Generator* or *Customer* may, with the consent of *AEMO*, change its registration category to *Integrated Resource Provider*.
- (b) An application under this paragraph must be submitted to *AEMO* in the form prescribed by *AEMO*.
- (c) *AEMO* must, within 5 *business days* of receiving an application under this rule, advise the applicant of any further information or clarification which is required in support of its application if, in *AEMO's* reasonable opinion, the application is incomplete or contains information upon which *AEMO* requires clarification.
- (d) If the further information or clarification required pursuant to paragraph (c) is not provided to *AEMO's* satisfaction within 15 *business days* of the request, *AEMO* may, on notice to the applicant at any time after expiry of that period, elect to treat the application as withdrawn and the applicant will be taken to have withdrawn the application.

- (e) *AEMO* must, within 15 *business days* of receiving an application under this rule determine to change the applicant's registration category if *AEMO* is reasonably satisfied that the applicant meets the eligibility requirements for registration as an *Integrated Resource Provider*.

[86] Clause 2.10.1 Notification of intention

Omit clause 2.10.1(a) and substitute:

- (a) A person:
 - (1) may notify *AEMO* in writing that it wishes to cease to be registered in any category of *Registered Participant* or that it wishes to terminate any of its classifications of *generating units* or *integrated resource units* (other than a *generating unit* or *integrated resource unit* specified in subparagraph (2)), other *plant* or *network services*; and
 - (2) who is a *Scheduled Generator*, *Semi-Scheduled Generator*, or *Scheduled Integrated Resource Provider* must notify *AEMO* in writing if it wishes to terminate any of its classifications of *generating units* or *integrated resource units*.

[87] Clause 2.10.1 Notification of intention

Omit clause 2.10.1(c1)(1) and substitute:

- (1) must specify a date (the *closure date*) by which:
 - (i) the classification of the *generating unit* or *integrated resource unit* will be terminated; and
 - (ii) it will cease to *supply* or acquire electricity or trade directly in the *market* whether entirely or in relation to one or more *connection points*; and

[88] Clause 2.10.1 Notification of intention

Omit clause 2.10.1(c2) (excluding the "Note") and substitute:

- (c2) A *Scheduled Generator*, *Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* must not specify a *closure date* for a *generating unit* or *integrated resource unit* that is earlier than 42 months from the date of the notice given under subparagraph (a)(2), except where the relevant *Generator* or *Integrated Resource Provider* has applied for, and is granted an exemption by the *AER* under paragraph (c4).

[89] Clause 2.10.1 Notification of intention

Omit the first paragraph of clause 2.10.1(c3) and substitute:

- (c3) A *Scheduled Generator, Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* giving a notice to *AEMO* under subparagraph (c1)(2) (**amended notice**):

[90] Clause 2.10.1 Notification of intention

In clause 2.10.1(c3)(1), omit "be a date" and insert "specify an amended *closure date*".

[91] Clause 2.10.1 Notification of intention

In clause 2.10.1(c3)(2), omit "be a date" and insert "specify an amended *closure date*".

[92] Clause 2.10.1 Notification of intention

In clause 2.10.1(c3)(2)(ii), after "the *Generator*" insert "or *Integrated Resource Provider*".

[93] Clause 2.10.1 Notification of intention

Omit clause 2.10.1(c4) and substitute:

- (c4) The *AER* may, in accordance with guidelines issued from time to time by the *AER*, exempt any *Scheduled Generator, Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* from the requirement to provide the *closure date* in accordance with paragraph (c2) and (c3).

[94] Clause 2.10.1 Notification of intention

In clause 2.10.1(c5)(1)(i), after "by a *Generator*" insert "or *Integrated Resource Provider*".

[95] Clause 2.10.1 Notification of intention

In clause 2.10.1(c5)(1)(ii), after "received from *Generators*" insert "or *Integrated Resource Providers*".

[96] Clause 2.10.1 Notification of intention

In clause 2.10.1(d), omit all references to "*market loads*" and substitute "*market connection points*".

[97] Clause 2.10.1 Notification of intention

In clause 2.10.1(d)(1), omit "*market loads*" and substitute "*market connection points*".

[98] Clause 2.10.1 Notification of intention

Omit the first paragraph of clause 2.10.1(d1) and substitute:

- (d1) *AEMO* may reject a notice from a *Small Resource Aggregator* which states that it wishes to terminate its classification of a *small generating unit* or *small integrated resource unit* as a *market generating unit* or *market integrated resource unit*, or otherwise cease to be a *Small Resource Aggregator* in relation to any of its *market generating units* or *market integrated resource units*, unless *AEMO* is satisfied that:

[99] Clause 2.10.1 Notification of intention

Omit clause 2.10.1(d1)(1) and substitute:

- (1) another person has classified the *small generating unit* or *small integrated resource unit* as one of its *market generating units* or *market integrated resource units* and that person is registered as a *Small Resource Aggregator*;

[100] Clause 2.10.1 Notification of intention

In clause 2.10.1(d1)(2), after "the *market generating units*" insert "or *market integrated resource units*".

[101] Clause 2.10.1 Notification of intention

In clause 2.10.1(d1)(3), after "the *small generating unit*" insert "or *small integrated resource unit*".

[102] Clause 2.10.1 Notification of intention

In clause 2.10.1(e), omit "*market loads*" and substitute "*market connection points*".

[103] Clause 2.10.1 Notification of intention

In clause 2.10.1(e), after "*market generating units*," insert "*market integrated resource units*".

[104] Rule 2.12 Interpretation of References to Various Registered Participants

Omit the heading of rule 2.12 and substitute:

2.12 Interpretation of references to various entities

[105] Rule 2.12 Interpretation of references to various entities

Omit rule 2.12(b)(1A) and substitute:

- (1A) a "*Small Resource Aggregator*" applies to a person registered as an "*Integrated Resource Provider*" only in so far as it is applicable to matters connected with the person's *market connection points* classified under clause 2.2.8(a);

[106] Rule 2.12 Interpretation of references to various entities

In rule 2.12(b)(1B), omit "*ancillary service load or wholesale demand response unit*" and substitute "*ancillary service units or wholesale demand response units*".

[107] Rule 2.12 Interpretation of references to various entities

After rule 2.12(b)(2) insert:

- (2A) a "*Scheduled Integrated Resource Provider*", "*Non-Scheduled Integrated Resource Provider*" or "*Non-Market Integrated Resource Provider*" applies to a person only in so far as it is applicable to matters connected with the person's *scheduled integrated resource units, non-scheduled integrated resource units or non-market integrated resource units*, respectively;

[108] Rule 2.12 Interpretation of references to various entities

Omit rule 2.12(b)(3) and substitute:

- (3) a "*Customer*" applies to a person registered as a *Customer* only in so far as it is applicable to matters connected with the person's *market connection points*;

[109] Rule 2.12 Interpretation of references to various entities

After rule 2.12(b)(3) insert:

- (3A) an "*Ancillary Service Provider*" applies to a person only in so far as it is applicable to matters connected with the person's *ancillary service units*;

[110] Rule 2.12 Interpretation of references to various entities

Omit rule 2.12(b)(4) and substitute:

- (4) a "*Market Customer*" applies to a *Customer or Integrated Resource Provider* only in so far as it is applicable to matters connected with the person's *market connection points* classified under clause 2.3.4(b), (d) or (i);

[111] Rule 2.12 Interpretation of references to various entities

Omit rule 2.12(b)(7)(i) and substitute:

- (i) where the person is a *Market Generator, Integrated Resource Provider, Market Customer or Demand Response Service Provider*, in so far as it is applicable to its *market connection points or plant* it has classified under this Chapter;

[112] Rule 2.12 Interpretation of references to various entities

In rule 2.12, omit subparagraph (b)(7)(i1) and substitute "[deleted]".

[113] Rule 2.12 Interpretation of references to various entities

In rule 2.12, omit subparagraph (b)(7)(i2) and substitute "[deleted]".

[114] Rule 2.12 Interpretation of references to various entities

In rule 2.12, omit subparagraph (b)(7)(ii) and substitute "[deleted]".

[115] Rule 2.12 Interpretation of references to various entities

In rule 2.12, in subparagraph (b)(7)(iv), after each occasion of "*Market Generator*", insert ", *Integrated Resource Provider*".

[116] Rule 2.12 Interpretation of references to various entities

In rule 2.12, omit subparagraph (b)(8)(i) and substitute:

- (i) where the person is registered as a *Generator, Integrated Resource Provider, Customer* or *Demand Response Service Provider*, in so far as it is applicable to its *market connection points* or *plant* it has classified under this Chapter;

[117] Rule 2.12 Interpretation of references to various entities

In rule 2.12, omit subparagraph (b)(8)(ii) and substitute "[deleted]".

Schedule 2 Amendment to the National Electricity Rules

(Clause 4)

[1] Clause 3.2.2 Spot market

In clause 3.2.2(a), omit "*dispatch bids, dispatch offers and market ancillary service offers for the spot market;*" and substitute "*dispatch bids and market ancillary service bids for the spot market;*".

[2] Clause 3.3.14 Potential value of a transaction

In clause 3.3.14, in the first paragraph, omit "or offer".

[3] Clause 3.3.16 Limitation on entry of transactions

In clause 3.3.16(a), omit "or offer".

[4] Clause 3.6.1 Inter-regional losses

Omit clause 3.6.1(d)(3)(ii) and substitute:

- (ii) aim to minimise the impact on *dispatch* of *scheduled resources* as compared to the *dispatch* of *scheduled resources* which would result from a fully optimised *central dispatch* process taking into account the effect of losses.

[5] Clause 3.6.1 Inter-regional losses

Omit clause 3.6.1(d)(4) and substitute:

- (4) *Inter-regional loss factor* equations are determined using:
 - (i) forecast *load* and *generation* data; and
 - (ii) if required, modelled *load* and *generation* data,
prepared by *AEMO* pursuant to clause 3.6.2A for the *financial year* in which the *inter-regional loss factor* equations are to apply.

[6] Clause 3.6.2 Intra-regional losses

Omit clause 3.6.2(e)(2A) and (3) and substitute:

- (2A) *Intra-regional loss factors* must aim to minimise the impact on *dispatch* of *scheduled resources* as compared to the *dispatch* of *scheduled resources* which would result from a fully optimised *central dispatch* process taking into account the effect of losses.
- (3) An *intra-regional loss factor* is to be determined using forecast *load* and *generation* data prepared by *AEMO* pursuant to clause

3.6.2A for the *financial year* in which the *intra-regional loss factor* is to apply.

[7] Clause 3.6.2 Intra-regional losses

In clause 3.6.2(e)(4), omit "*load and generation*".

[8] Clause 3.6.2A Load and generation data used to determine inter-regional loss factor equations and intra-regional loss factors

In clause 3.6.2A(c), after "forecast data for any new *loads*", insert "including *loads* of new *integrated resource units*".

[9] Clause 3.6.2A Load and generation data used to determine inter-regional loss factor equations and intra-regional loss factors

In clause 3.6.2A(d)(1)(ii), omit "projected *load* growth" and substitute "projected changes in *load*".

[10] Clause 3.6.3 Distribution losses

In clause 3.6.3(b)(2)(i)(A), after each occasion of "an *embedded generating unit*", insert "or *embedded integrated resource unit*".

[11] Clause 3.6.3 Distribution losses

In clause 3.6.3(b)(2)(i)(B), after "a *connection point* for an end user with actual or forecast", omit "*load*" and substitute "annual consumption of electricity".

[12] Clause 3.6.3 Distribution losses

In clause 3.6.3(b)(2)(i)(B), after "more than 40GWh or", omit "an electrical demand" and substitute "actual or forecast *peak load*".

[13] Clause 3.6.3 Distribution losses

In clause 3.6.3(b)(2)(i)(B), after "a *Network Service Provider* may determine whether an end user", omit "*load*" and substitute "forecast annual consumption of electricity".

[14] Clause 3.6.3 Distribution losses

Omit clause 3.6.3(b1), excluding the "**Note**" and substitute:

- (b1) Where a *Generator, Integrated Resource Provider* or *Small Resource Aggregator* meets the reasonable cost of the *Distribution Network Service Provider* in performing the necessary calculation in respect of a *generating unit* or *integrated resource unit* of actual or forecast annual production of electricity of up to 40GWh or production

capacity of up to 10MW, the *Distribution Network Service Provider* must calculate a site specific *distribution loss factor* that, notwithstanding any other provision of the *Rules* to the contrary, for the purposes of the *Rules* is to apply in respect of that *generating unit* or *integrated resource unit* as though the *generating unit* or *integrated resource unit* were a unit of more than 10MW production capacity or more than 40GWh annual production.

[15] Clause 3.6.3 Distribution losses

In clause 3.6.3(h)(5), omit "projected *load* and / or *generation growth*" and substitute "projected changes in *load* and/or *generation*".

[16] Clause 3.6.4 Network constraints

In clause 3.6.4(a), omit ", *generation, scheduled network services* or *loads*" and substitute "or *scheduled resources*".

[17] Clause 3.6.4 Network constraints

In clause 3.6.4(a1), omit "*dispatch of generation, regulated interconnectors, other scheduled network services* or *loads*" and substitute "*dispatch of regulated interconnectors* or *scheduled resources*".

[18] Clause 3.6.4 Network constraints

In clause 3.6.4(b), omit "the *dispatch of generation, scheduled network services* or *loads*" and substitute "the *dispatch of scheduled resources*".

[19] Clause 3.6.5 Settlements residue due to network losses and constraints

In clause 3.6.5(a)(4), omit "arises then" and substitute "then".

[20] Clause 3.6.5 Settlements residue due to network losses and constraints

In clause 3.6.5(a)(4A), omit "arises then" and substitute "then".

[21] Clause 3.7.1 Administration of PASA

In clause 3.7.1(c)(1), after "*Scheduled Generators,*" insert "*Scheduled Integrated Resource Providers,*".

[22] Clause 3.7.1 Administration of PASA

In clause 3.7.1(c)(1)(i), omit "*generation, transmission* and *market network service*" and substitute "*plant*".

[23] Clause 3.7.2 Medium term PASA

In clause 3.7.2(c)(1)(i), omit "including all forecast *scheduled load* and other *load* except for pumped *storage loads*;" and substitute "including all forecast *scheduled load*, and other *load* except for *loads* classified as *scheduled load* in accordance with clause 2.3.4A(b) and *load* of *scheduled integrated resource units*;".

[24] Clause 3.7.2 Medium term PASA

In clause 3.7.2(c)(1)(ii), omit "in the forecast as *scheduled load* by *load* bidders; and" and substitute "in the forecast as the *dispatched load* of *scheduled integrated resource units* or *scheduled load*; and".

[25] Clause 3.7.2 Medium term PASA

In clause 3.7.2(c)(2), after "the capabilities of *generating units*", insert "or *integrated resource units*".

[26] Clause 3.7.2 Medium term PASA

In clause 3.7.2(d), omit "*Scheduled Generator* or".

[27] Clause 3.7.2 Medium term PASA

In clause 3.7.2(d), omit "*Scheduled Generator's* or".

[28] Clause 3.7.2 Medium term PASA

In clause 3.7.2(d)(1), after "*PASA availability* of each *scheduled generating unit*," insert "*scheduled integrated resource unit*".

[29] Clause 3.7.2 Medium term PASA

In clause 3.7.2(d)(1)(i), after "*scheduled generating unit*", insert "and *scheduled integrated resource unit*".

[30] Clause 3.7.2 Medium term PASA

In clause 3.7.2(d)(2), after "each *scheduled generating unit*", insert ", *scheduled integrated resource unit*".

[31] Clause 3.7.2 Medium term PASA

In clause 3.7.2(f)(1), after "*scheduled loads*", insert "and the *load* of *scheduled integrated resource units*".

[32] Clause 3.7.2 Medium term PASA

In clause 3.7.2(f)(2), after "*non-scheduled generating systems*", insert "and *non-scheduled integrated resource systems*".

[33] Clause 3.7.2 Medium term PASA

Omit clause 3.7.2(f)(5) and substitute:

- (5) for a 36 month period, aggregate *PASA availability* of *generating units* and *integrated resource units* to produce electricity for each *region* and *PASA availability* of each *scheduled generating unit* and *scheduled integrated resource unit*;

[34] Clause 3.7.2 Medium term PASA

In clause 3.7.2(f)(5A)(i), omit "the capacity of *scheduled generating units*" and substitute "the *generation* capacity of *scheduled generating units* and *scheduled integrated resource units*".

[35] Clause 3.7.2 Medium term PASA

In clause 3.7.2(f)(5B), omit "aggregate capacity" and substitute "aggregate electricity production capacity".

[36] Clause 3.7.2 Medium term PASA

In clause 3.7.2(f)(5B), after "*scheduled generating units*", insert "or *scheduled integrated resource units*".

[37] Clause 3.7.2 Medium term PASA

In clause 3.7.2(f)(5C), omit "minimum aggregate *scheduled generating unit PASA availability*" and substitute "minimum aggregate *PASA availability* of *scheduled generating units* and *scheduled integrated resource units*".

[38] Clause 3.7.2 Medium term PASA

In clause 3.7.2(f)(5C), after "*Scheduled Generator*", insert "and *Scheduled Integrated Resource Provider*".

[39] Clause 3.7.2 Medium term PASA

In clause 3.7.2(f)(6)(v), omit "*generation or load*" and substitute "*scheduled resources*".

[40] Clause 3.7.3 Short term PASA

Omit clause 3.7.3(d)(1)(ii) and substitute:

- (ii) all *scheduled load* and other *load* (including *wholesale demand response units*) except for *loads* classified as *scheduled load* in accordance with clause 2.3.4A(b) and *load of scheduled integrated resource units*,

[41] Clause 3.7.3 Short term PASA

In clause 3.7.3(e), omit "*Scheduled Generator* and".

[42] Clause 3.7.3 Short term PASA

In clause 3.7.3(e), omit "*Scheduled Generator's* or".

[43] Clause 3.7.3 Short term PASA

In clause 3.7.3(e)(1), after "*scheduled generating unit*," insert "*scheduled integrated resource unit*".

[44] Clause 3.7.3 Short term PASA

In clause 3.7.3(e)(2), after "*scheduled generating unit*," insert "*scheduled integrated resource unit*".

[45] Clause 3.7.3 Short term PASA

In clause 3.7.3(e)(3), omit "and".

[46] Clause 3.7.3 Short term PASA

In clause 3.7.3(e)(4), omit "." and insert "; and".

[47] Clause 3.7.3 Short term PASA

After clause 3.7.3(e)(4), insert:

- (5) projected *energy* availability for *energy constrained scheduled integrated resource units* for each 30-minute period.

[48] Clause 3.7.3 Short term PASA

In clause 3.7.3(h)(4), omit "*aggregate generating unit availability*" and substitute "*aggregate availability of generating units and integrated resource units*".

[49] Clause 3.7.3 Short term PASA

In clause 3.7.3(h)(4AA), omit "*aggregate capacity*" and substitute "*aggregate electricity production capacity*".

[50] Clause 3.7.3 Short term PASA

In clause 3.7.3(h)(4AA)(i), after "*scheduled generating units*", insert "*and integrated resource units to produce electricity*".

[51] Clause 3.7.3 Short term PASA

In clause 3.7.3(h)(4AA)(i), omit "AEMO" and substitute "*AEMO*".

[52] Clause 3.7.3 Short term PASA

In clause 3.7.3(h)(4A), omit "aggregate *generating unit PASA availability*" and substitute "aggregate *PASA availability of generating units and integrated resource units to produce electricity*".

[53] Clause 3.7.3 Short term PASA

In clause 3.7.3(h)(4B), after "*non-scheduled generating systems*", insert "and *non-scheduled integrated resource systems*".

[54] Clause 3.7.3 Short term PASA

In clause 3.7.3(h)(5)(v), omit "the *dispatch of generation or load*" and substitute "*dispatch*".

[55] Rule 3.7B Unconstrained intermittent generation forecast

In rule 3.7B(c)(1), omit "*bid and offer validation data*" and substitute "*bid validation data*".

[56] Rule 3.7B Unconstrained intermittent generation forecast

In rule 3.7B(c)(6), omit "the *generation*" and substitute "*supply*".

[57] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(b)(6)(C), after "one *scheduled generating unit*", insert "or *scheduled integrated resource unit*".

[58] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(b)(6)(C), omit "the relevant *generating units*" and substitute "the relevant *scheduled generating units or scheduled integrated resource units*".

[59] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(e), after "a *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

[60] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(f), after "the *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

[61] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(g), after "A *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

[62] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(g), omit "to generate electricity" and substitute "or *scheduled integrated resource units* to produce electricity".

[63] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(g), omit "*generating unit* sufficient for *AEMO*" and substitute "*scheduled generating unit* or *scheduled integrated resource unit* sufficient for *AEMO*".

[64] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(i), after each occasion of "*Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

[65] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(i), after "any of its *scheduled generating units*", insert "or *scheduled integrated resource units*".

[66] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(k)(3), after "a *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

[67] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7(k)(4), after "a *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

[68] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7(k)(6), after "a collection of *scheduled generating units*", insert "or *scheduled integrated resource units*".

[69] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7(k)(7), after "each *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

[70] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(k)(9), after "a *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

[71] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(1)(3), omit "generation" and substitute "electricity production".

[72] Rule 3.7C Energy Adequacy Assessment Projection

Omit the group title of rule 3.7C(r) and substitute:

Provision of information to Scheduled Generators and Scheduled Integrated Resource Providers

[73] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(r), after "each *Scheduled Generator*", insert "and *Scheduled Integrated Resource Provider*".

[74] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(r), omit "the *scheduled generating units*" and substitute "its *scheduled generating units*".

[75] Rule 3.7C Energy Adequacy Assessment Projection

In rule 3.7C(r), omit "of that *Scheduled Generator*" and substitute "or *scheduled integrated resource units*".

[76] Rule 3.7D Demand side participation information

In rule 3.7D(a), omit the definition "**unscheduled generation**" and substitute:

unscheduled generation means *generation* from the following *plant connected* to a *transmission system* or *distribution system*:

- (1) a *generating system* which is not a *scheduled generating system* or *semi-scheduled generating system*; and
- (2) an *integrated resource system* which is not a *scheduled integrated resource system*.

[77] Rule 3.7E Register of DER information

In rule 3.7E(g)(1), after "size of *small generating units*", insert "or *small integrated resource units*".

[78] Rule 3.7F Generation information page

After rule 3.7F(b)(1), insert:

- (1a) a list of all *scheduled integrated resource units* and *non-scheduled integrated resource units*, including information on their respective capabilities and whether the *integrated resource units* are in service;

[79] Rule 3.7F Generation information page

In rule 3.7F(b)(2), after "a list of *generating units*", insert "and *integrated resource units*".

[80] Clause 3.8.1 Central Dispatch

In clause 3.8.1(a), omit "*scheduled generating units, semi-scheduled generating units, wholesale demand response units, scheduled loads, scheduled network services*" and substitute "*scheduled resources*".

[81] Clause 3.8.1 Central Dispatch

In clause 3.8.1(a), omit "*dispatch offers* and".

[82] Clause 3.8.1 Central Dispatch

In clause 3.8.1(b), omit the opening paragraph and substitute:

- (b) The *central dispatch* process should aim to maximise the value of *spot market* trading i.e. to maximise the value of *dispatched load* based on *dispatch bids* less the combined cost of *dispatched generation, dispatched market network services* and *dispatched wholesale demand response* based on *dispatch bids*, and *dispatched market ancillary services* based on *market ancillary service bids* subject to:

[83] Clause 3.8.1 Central Dispatch

Omit clause 3.8.1(b)(1) and substitute:

- (1) *dispatch bids* and *market ancillary service bids*;

[84] Clause 3.8.1 Central Dispatch

In clause 3.8.1(b)(7), omit "and *dispatch offer*".

[85] Clause 3.8.1 Central Dispatch

Omit clause 3.8.1(b)(8) and substitute:

- (8) current levels of *dispatched generation, dispatched load, dispatched market network services* and *dispatched wholesale demand response*;

[86] Clause 3.8.1 Central Dispatch

In clause 3.8.1(b)(10), omit "and *dispatch offer*".

[87] Clause 3.8.1 Central Dispatch

In clause 3.8.1(e), omit "*scheduled generating unit, semi-scheduled generating unit, wholesale demand response unit, scheduled network service or scheduled load*" and substitute "*scheduled resource*".

[88] Clause 3.8.1 Central Dispatch

In clause 3.8.1(e1), omit "*ancillary service generating unit or ancillary service load*" and substitute "*ancillary service unit*".

[89] Clause 3.8.2 Participation in central dispatch

In clause 3.8.2(a), after "A *Generator*", insert "or *Integrated Resource Provider*".

[90] Clause 3.8.2 Participation in central dispatch

In clause 3.8.2(a), omit "*generation dispatch offers*" and substitute "*dispatch bids*".

[91] Clause 3.8.2 Participation in central dispatch

In clause 3.8.2(a), omit "or *semi-scheduled generating units*" and substitute ", *semi-scheduled generating units or scheduled integrated resource units*".

[92] Clause 3.8.2 Participation in central dispatch

In clause 3.8.2(b), omit "*Generation dispatch offers*" and substitute "*Dispatch bids*".

[93] Clause 3.8.2 Participation in central dispatch

In clause 3.8.2(b1), omit "*network dispatch offers*" and substitute "*dispatch bids*".

[94] Clause 3.8.2 Participation in central dispatch

In clause 3.8.2(c1), omit "*Market ancillary service offers*" and substitute "*Market ancillary service bids*".

[95] Clause 3.8.2 Participation in central dispatch

In clause 3.8.2(d), omit "*market ancillary service offers*" and substitute "*market ancillary service bids*".

[96] Clause 3.8.3 Bid and offer aggregation guidelines

Omit the heading of clause 3.8.3 and substitute:

3.8.3 Central dispatch aggregation guidelines

[97] Clause 3.8.3 Central dispatch aggregation guidelines

Omit clause 3.8.3(a) and substitute:

- (a) *Market Participants* who wish to aggregate any of their *generating units, integrated resource units, scheduled network services* or *scheduled loads* for the purpose of *central dispatch* must apply to *AEMO* to do so.

[98] Clause 3.8.3 Central dispatch aggregation guidelines

In clause 3.8.3(a1), omit "*Market Customers* or *Demand Response Service Providers* (as applicable)" and substitute "*Market Participants*".

[99] Clause 3.8.3 Central dispatch aggregation guidelines

In clause 3.8.3(a1), omit "*loads*" and substitute "*ancillary service units*".

[100] Clause 3.8.3 Central dispatch aggregation guidelines

In clause 3.8.3(a1), omit "*ancillary service load*" and substitute "*ancillary service unit*".

[101] Clause 3.8.3 Central dispatch aggregation guidelines

In clause 3.8.3(b)(1), omit "*loads*" and substitute "*, integrated resource units* or *scheduled loads*".

[102] Clause 3.8.3 Central dispatch aggregation guidelines

In clause 3.8.3(b)(1)(i), omit "and".

[103] Clause 3.8.3 Central dispatch aggregation guidelines

Omit clause 3.8.3(b)(1)(ii) and substitute:

- (ii) operated by a single *Market Participant*; and

[104] Clause 3.8.3 Central dispatch aggregation guidelines

After clause 3.8.3(b)(1)(ii), insert:

- (iii) the same technology type and classification and (where relevant) have similar *energy conversion models*;

[105] Clause 3.8.3 Central dispatch aggregation guidelines

In clause 3.8.3(b)(2), omit "*Generator* or".

[106] Clause 3.8.3 Central dispatch aggregation guidelines

Omit clause 3.8.3(b1)(1) and substitute:

- (1) aggregated *ancillary service units* must be *connected* within a single *region* and be operated by a single person (whether or not in the same *Market Participant* capacity);

[107] Clause 3.8.3 Central dispatch aggregation guidelines

In clause 3.8.3(c), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

[108] Clause 3.8.3 Central dispatch aggregation guidelines

In clause 3.8.3(d), after "a *generating unit*", insert ", *scheduled integrated resource unit*".

[109] Clause 3.8.3 Central dispatch aggregation guidelines

In clause 3.8.3(d), after "aggregated *generating units*", insert ", aggregated *integrated resource units*".

[110] Clause 3.8.3 Central dispatch aggregation guidelines

In clause 3.8.3(f), omit "*Scheduled Generators* and".

[111] Clause 3.8.3 Central dispatch aggregation guidelines

In clause 3.8.3(f), after "individual *scheduled generating unit*", insert ", *scheduled integrated resource unit*".

[112] Clause 3.8.3 Central dispatch aggregation guidelines

In clause 3.8.3(g), omit "*Scheduled Generator, Semi Scheduled Generator* or".

[113] Clause 3.8.3 Central dispatch aggregation guidelines

Omit clause 3.8.3(h) and substitute:

- (h) *AEMO* must maintain a database of aggregated *scheduled resources* and aggregated *ancillary service units* and their components.

[114] Clause 3.8.3A Ramp rates

In clause 3.8.3A(a), omit the opening paragraph and substitute:

- (a) This clause 3.8.3A applies to a *Registered Participant* who is required to provide *ramp rates* to *AEMO* for its *scheduled resource* in accordance with the following clauses:

[115] Clause 3.8.3A Ramp rates

In clause 3.8.3(a)(2), omit "offers for dispatch" and substitute "*dispatch bids*".

[116] Clause 3.8.3A Ramp rates

In clause 3.8.3A(b), omit "*Scheduled Generator, Semi Scheduled Generator* or".

[117] Clause 3.8.3A Ramp rates

In clause 3.8.3A(b), after "for each *generating unit*", insert ", *scheduled integrated resource unit*".

[118] Clause 3.8.3A Ramp rates

In clause 3.8.3A(b)(1), omit "*scheduled network service* or *scheduled load*" and substitute "*scheduled resource*".

[119] Clause 3.8.3A Ramp rates

In clause 3.8.3A(b)(1)(i), omit "3MW/minute; or" and substitute "the *resource minimum ramp rate requirement*; or".

[120] Clause 3.8.3A Ramp rates

Omit clause 3.8.3A(b)(1)(ii) and substitute:

- (ii) in the case of a *scheduled network service* that is aggregated in accordance with clause 3.8.3, the amount equal to the product of the *resource minimum ramp rate* and the number of individual *scheduled network services* (and for the avoidance of doubt clause 3.8.3 does not apply to this subparagraph (ii)); or

[121] Clause 3.8.3A Ramp rates

Omit clause 3.8.3A(b)(1)(iii) and substitute "[**deleted**]".

[122] Clause 3.8.3A Ramp rates

Omit clause 3.8.3A(b)(1)(iv) and substitute:

- (iv) in the case of a *scheduled generating unit*, *semi-scheduled generating unit*, *scheduled integrated resource unit* or *scheduled load* that is aggregated in accordance with clause 3.8.3, the sum of the *resource minimum ramp rate requirement* for each individual *scheduled resource* (and for the avoidance of doubt clause 3.8.3 does not apply to this subparagraph (iv)); and

[123] Clause 3.8.3A Ramp rates

In clause 3.8.3A(c), omit "*Scheduled Generator*, *Semi-Scheduled Generator* or".

[124] Clause 3.8.3A Ramp rates

In clause 3.8.3A(c), omit "that specified in clause 3.8.3A(b)(1)" and substitute "the *minimum ramp rate requirement*".

[125] Clause 3.8.3A Ramp rates

In clause 3.8.3A(c)(1), after "the relevant *generating unit*", insert ", *scheduled integrated resource unit*".

[126] Clause 3.8.3A Ramp rates

In clause 3.8.3A(c)(1), omit "that specified in clause 3.8.3A(b)(1)" and substitute "the *minimum ramp rate requirement*".

[127] Clause 3.8.3A Ramp rates

In clause 3.8.3A(c)(2), after "the relevant *generating unit*", insert ", *scheduled integrated resource unit*".

[128] Clause 3.8.3A Ramp rates

In clause 3.8.3A(c)(2), omit "that specified in clause 3.8.3A(b)(1)" and substitute "the *minimum ramp rate requirement*".

[129] Clause 3.8.3A Ramp rates

In clause 3.8.3A(d), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

[130] Clause 3.8.3A Ramp rates

In clause 3.8.3A(d), omit "that specified in clause 3.8.3A(b)(1)" and substitute "the *minimum ramp rate requirement*".

[131] Clause 3.8.3A Ramp rates

In clause 3.8.3A(d), after "the relevant *generating unit*", insert "*scheduled integrated resource unit*".

[132] Clause 3.8.3A Ramp rates

In clause 3.8.3A(e), omit "If a *Scheduled Generator, Semi-Scheduled Generator* or *Market Participant* to which this clause 3.8.3A applies" and substitute "If a *Market Participant* to which this clause applies".

[133] Clause 3.8.3A Ramp rates

In clause 3.8.3A(e), omit all references to "that specified in clause 3.8.3A(b)(1)" and substitute "the *minimum ramp rate requirement*".

[134] Clause 3.8.3A Ramp rates

In clause 3.8.3A(f), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

[135] Clause 3.8.3A Ramp rates

In clause 3.8.3A(h), omit "If a *Scheduled Generator, Semi-Scheduled Generator* or *Market Participant* to which this clause 3.8.3A applies" and substitute "If a *Market Participant* to which this clause applies".

[136] Clause 3.8.3A Ramp rates

In clause 3.8.3A(h), omit all references to "that specified in clause 3.8.3A(b)(1)" and substitute "the *minimum ramp rate requirement*".

[137] Clause 3.8.3A Ramp rates

In clause 3.8.3A(i), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

[138] Clause 3.8.3A Ramp rates

In clause 3.8.3A(i)(1), omit "that specified in clause 3.8.3A(b)(1)" and substitute "the *minimum ramp rate requirement*".

[139] Clause 3.8.3A Ramp rates

In clause 3.8.3A(j), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

[140] Clause 3.8.3A Ramp rates

In clause 3.8.3A(j), after "for the relevant *generating unit*", insert ", *scheduled integrated resource unit*".

[141] Clause 3.8.4 Notification of scheduled capacity

In clause 3.8.4, omit the opening paragraph and substitute:

A Market Participant must inform *AEMO* of the *available capacity* of each of its *scheduled resources* (other than its *semi-scheduled generating units*) as follows in accordance with the *timetable*:

[142] Clause 3.8.4 Notification of scheduled capacity

Omit clause 3.8.4(a), excluding the "Note", and substitute:

(a) *A Market Participant* must notify *AEMO* of the *available capacity* of each of its *scheduled resources* for each *trading interval* of the *trading day*;

[143] Clause 3.8.4 Notification of scheduled capacity

In clause 3.8.4(c), omit "*Scheduled Generators*" and substitute "*scheduled generating units* and *scheduled integrated resource units*".

[144] Clause 3.8.4 Notification of scheduled capacity

In clause 3.8.4(c)(2), after "*decommitment times*", insert "*for scheduled generating units*".

[145] Clause 3.8.4 Notification of scheduled capacity

In clause 3.8.4(c)(3), omit "*energy constrained generating units; and*" and substitute "*energy constrained scheduled generating units;*".

[146] Clause 3.8.4 Notification of scheduled capacity

After clause 3.8.4(c)(3), insert:

(3A) *energy availability for energy constrained scheduled integrated resource units for the trading intervals in the trading day; and*

[147] Clause 3.8.5 Submission timing

In clause 3.8.5(a), omit "*or dispatch offer or market ancillary service offer*" and substitute "*or market ancillary service bid*".

[148] Clause 3.8.5 Submission timing

Omit clause 3.8.5(b) and substitute:

(b) Subject to clause 3.8.22, changes to the MW quantities in a *dispatch bid* may be made after the relevant deadline in the *timetable*.

[149] Clause 3.8.5 Submission timing

In clause 3.8.5(c), omit "*, dispatch offers and market ancillary service offers*" and substitute "*and market ancillary service bids*".

[150] Clause 3.8.6 Generating unit offers for dispatch

Omit the title of clause 3.8.6 and substitute:

3.8.6 Dispatch bids - generating units and integrated resource units

[151] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6, before paragraph (a), insert:

(a0) *A Scheduled Generator, Semi-Scheduled Generator and Scheduled Integrated Resource Provider must comply with the applicable requirements of this clause 3.8.6 when submitting a dispatch bid.*

[152] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6, before paragraph (a), omit "Scheduled Generator" and substitute:

Scheduled generating units

[153] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(a), omit "*Scheduled Generator's dispatch offer*" and substitute "*dispatch bid for a scheduled generating unit*".

[154] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(a)(2)(ii), omit "*dispatch offer*" and substitute "*dispatch bid*".

[155] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(a)(3), omit "offer" and substitute "*dispatch bid*".

[156] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(a)(4), omit "*dispatch offer*" and substitute "*dispatch bid*".

[157] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(b), omit "*dispatch offer may*" and substitute "*dispatch bid must*".

[158] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(c), omit "A *Scheduled Generator's loading prices* offered" and substitute "The *loading price* for a *scheduled generating unit*".

[159] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(c), omit "multiplied by" and substitute "and"

[160] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(c), omit second use of "Scheduled Generator's".

[161] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(d), omit "of a *Scheduled Generator*".

[162] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(e), omit "A *Scheduled Generator's off-loading prices*" and substitute "The *off-loading prices* for a *scheduled generating unit*".

[163] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(e), omit "multiplied by" and substitute "and".

[164] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(e), omit second use of "*Scheduled Generator's*".

[165] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(f), omit "of a *Scheduled Generator*".

[166] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(f), omit all references to "*generating unit's*" and substitute "*scheduled generating unit's*".

[167] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

Before paragraph (g) in clause 3.8.6, omit "**Semi-Scheduled Generator**" and substitute:

Semi-scheduled generating units

[168] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

Omit clause 3.8.6(g) and substitute:

(g) A *dispatch bid* for a *semi-scheduled generating unit* may contain up to 10 *price bands* and must:

(1) specify for each of the 288 *trading intervals* in the *trading day*:

- (i) an incremental MW amount for each *price band* specified in the *dispatch bid*; and
- (ii) an up *ramp rate* and a down *ramp rate*; and
- (2) specify a price for each *price band* specified in the *dispatch bid*, in dollars and whole cents per MWh, and this price is to apply to the *price band* throughout the *trading day*.

Scheduled integrated resource units

- (g1) A *dispatch bid* for a *scheduled integrated resource unit* may contain up to 10 *price bands* for *generation* and 10 *price bands* for *load* and must:
 - (1) specify for each of the 288 *trading intervals* in the *trading day*:
 - (i) an incremental MW amount for each *price band* specified in the *dispatch bid*; and
 - (ii) an up *ramp rate* and a down *ramp rate*; and
 - (2) specify a price for each *price band* specified in the *dispatch bid*, in dollars and whole cents per MWh, and this price is to apply to the *price band* throughout the *trading day*;
- (g2) A *Scheduled Integrated Resource Provider's dispatch bid* must specify the *energy* available for *energy constrained scheduled integrated resource units* for the *trading intervals* in the *trading day*.

[169] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6, above paragraph (h), omit the subheading "**Semi-Scheduled and Scheduled Generators**" and substitute:

Scheduled and semi-scheduled generating units and scheduled integrated resource units

[170] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

Omit the opening paragraph of clause 3.8.6(h) and substitute:

- (h) A *dispatch bid* for a *scheduled generating unit*, *semi-scheduled generating unit* or *scheduled integrated resource unit* must meet the following requirements:

[171] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(h)(1), omit "*semi-scheduled generating unit* or *scheduled generating unit*" and substitute "*scheduled generating unit, semi-scheduled generating unit* or *scheduled integrated resource unit*".

[172] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(h)(1), after "the relevant *Generator's*", insert "or *Scheduled Integrated Resource Provider's*".

[173] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(h)(2), omit "*dispatch offer*" and substitute "*dispatch bid*".

[174] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(h)(3), omit "*semi-scheduled generating unit* or the *scheduled generating unit*" and substitute "*scheduled generating unit, semi-scheduled generating unit* or *scheduled integrated resource unit*".

[175] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(h)(3), omit all references to "*dispatch offer*" and substitute "*dispatch bid*".

[176] Clause 3.8.6 Dispatch bids - generating units and integrated resource units

In clause 3.8.6(h)(3)(ii), omit "multiplied by" and substitute "and".

[177] Clause 3.8.6A Scheduled network service offers for dispatch

Omit the heading of clause 3.8.6A and substitute:

3.8.6A Scheduled network service dispatch bids

[178] Clause 3.8.6A Scheduled network service dispatch bids

Omit the opening paragraph of clause 3.8.6A and substitute:

Scheduled Network Service Providers must comply with the following requirements when submitting a *dispatch bid* to provide *scheduled network services*:

[179] Clause 3.8.6A Scheduled network service dispatch bids

In clause 3.8.6A(a), omit "*network dispatch offer*" and substitute "*dispatch bid*".

[180] Clause 3.8.6A Scheduled network service dispatch bids

In clause 3.8.6A(b), omit "*network dispatch offer*" and substitute "*dispatch bid*".

[181] Clause 3.8.6A Scheduled network service dispatch bids

In clause 3.8.6A(b)(1), omit "*network dispatch offer*" and substitute "*dispatch bid*".

[182] Clause 3.8.6A Scheduled network service dispatch bids

In clause 3.8.6A(c), omit "*network dispatch offer*" and substitute "*dispatch bid*".

[183] Clause 3.8.6A Scheduled network service dispatch bids

In clause 3.8.6A(d), omit "*network dispatch offer*" and substitute "*dispatch bid*".

[184] Clause 3.8.6A Scheduled network service dispatch bids

In clause 3.8.6A(h), omit "multiplied by" and substitute "and".

[185] Clause 3.8.6A Scheduled network service dispatch bids

In clause 3.8.6A(i), omit "*network dispatch offer*" and substitute "*dispatch bid*".

[186] Clause 3.8.7 Bids for scheduled load

Omit the heading of clause 3.8.7 and substitute:

3.8.7 Scheduled load dispatch bids

[187] Clause 3.8.7 Scheduled load dispatch bids

Omit the opening paragraph of clause 3.8.7 and substitute:

Market Customers and Integrated Resource Providers must comply with the following requirements when submitting a dispatch bid for a scheduled load:

[188] Clause 3.8.7 Scheduled load dispatch bids

In clause 3.8.7(f), omit "multiplied by" and substitute "and".

[189] Clause 3.8.7 Scheduled load dispatch bids

In clause 3.8.7(h)(1), omit "multiplied by" and substitute "and".

[190] Clause 3.8.7 Scheduled load dispatch bids

In clause 3.8.7(h)(2), omit "multiplied by" and substitute "and".

[191] Clause 3.8.7 Scheduled load dispatch bids

In clause 3.8.7(m), omit "may" and substitute "must".

[192] Clause 3.8.7A Market ancillary services offers

Omit the heading of clause 3.8.7A and substitute:

3.8.7A Market ancillary services bids

[193] Clause 3.8.7A Market ancillary services bids

Omit the opening paragraph of clause 3.8.7A and substitute:

Ancillary Service Providers must comply with the following requirements when submitting a market ancillary service bid for any type of market ancillary service:

[194] Clause 3.8.7A Market ancillary services bids

In clause 3.8.7A(a), omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

[195] Clause 3.8.7A Market ancillary services bids

In clause 3.8.7A(b), omit all references to "*market ancillary service offer*" and substitute "*market ancillary service bid*".

[196] Clause 3.8.7A Market ancillary services bids

In clause 3.8.7A(d), omit "*ancillary service offer*" and substitute "*market ancillary service bid*".

[197] Clause 3.8.7A Market ancillary services bids

In clause 3.8.7A(d), omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

[198] Clause 3.8.7A Market ancillary services bids

In clause 3.8.7A(e), omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

[199] Clause 3.8.7A Market ancillary services bids

In clause 3.8.7A(j), omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

[200] Clause 3.8.7A Market ancillary services bids

In clause 3.8.7A(k), omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

[201] Clause 3.8.7A Market ancillary services bids

In clause 3.8.7A(k), omit "*ancillary service generating unit or ancillary service load as the case may be,*" and substitute "*ancillary service unit*".

[202] Clause 3.8.7A Market ancillary services bids

In clause 3.8.7A(l), omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

[203] Clause 3.8.7A Market ancillary services bids

In clause 3.8.7A(l), omit "*ancillary service generating unit or ancillary service load*" and substitute "*ancillary service unit*".

[204] Clause 3.8.7A Market ancillary services bids

In clause 3.8.7A(m), omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

[205] Clause 3.8.7A Market ancillary services bids

In clause 3.8.7A(m), omit "*ancillary service generating unit or ancillary service load*" and substitute "*ancillary service unit*".

[206] Clause 3.8.7B Wholesale demand response dispatch bids

Omit the opening paragraph of clause 3.8.7B and substitute:

Wholesale Demand Response Providers must comply with the following requirements when submitting *wholesale demand response dispatch bids*:

[207] Clause 3.8.7B Wholesale demand response dispatch bids

In clause 3.8.7B(e)(1)(ii), omit "multiplied by" and substitute "and".

[208] Clause 3.8.8 Validation of dispatch bids and offers

Omit the heading of clause 3.8.8 and substitute:

3.8.8 Validation of dispatch bids

[209] Clause 3.8.8 Validation of dispatch bids

Omit clause 3.8.8(a) and substitute:

- (a) If a *dispatch bid* or *market ancillary service bid* is made in accordance with clauses 3.8.6, 3.8.6A, 3.8.7, 3.8.7A or 3.8.7B (whichever is applicable), *AEMO* must make available to the *Market Participant* who submitted the *dispatch bid* or *market ancillary service bid* the following information without delay:
 - (1) acknowledgement of receipt of a valid *dispatch bid* or *market ancillary service bid*; and
 - (2) the data contained in the *dispatch bid* or *market ancillary service bid* as it will be used by *AEMO* in the *central dispatch* process.

[210] Clause 3.8.8 Validation of dispatch bids

Omit clause 3.8.8(b), excluding the "Note" and substitute:

- (b) It is the responsibility of each *Market Participant* to check that the data contained in its *dispatch bid* or *market ancillary service bid* as received and to be used by *AEMO* in the *central dispatch* process is correct.

[211] Clause 3.8.8 Validation of dispatch bids

Omit clause 3.8.8(c) and substitute:

- (c) If a *dispatch bid* or *market ancillary service bid* is not made in accordance with clauses 3.8.6, 3.8.6A, 3.8.7, 3.8.7A or 3.8.7B (whichever is applicable), *AEMO* must not include that *dispatch bid* or *market ancillary service bid* in the *central dispatch* process and must without delay notify the *Market Participant* submitting the *dispatch bid* or *market ancillary service bid* of its invalidity and provide to that *Market Participant* details of the invalid data.

[212] Clause 3.8.8 Validation of dispatch bids

Omit clause 3.8.8(d) and substitute:

- (d) If any details contained within a *dispatch bid* or *market ancillary service bid* are inconsistent with the *bid validation data* provided by the relevant *Market Participant* then *AEMO* has the right to treat that *dispatch bid* or *market ancillary service bid* as invalid and if it does so must notify the *Market Participant* without delay.

[213] Clause 3.8.9 Default offers and bids

Omit clause 3.8.9 in its entirety and substitute:

3.8.9 Default bids

- (a) *A Market Participant may, at any time, submit a default bid.*
- (b) *A Market Participant may vary or withdraw a default bid at any time prior to the deadline for submissions of dispatch bids and market ancillary service bids for a trading day in accordance with the timetable.*
- (c) *Subject any procedures published in accordance with paragraph (d), a default bid applicable to a trading day must be included by AEMO in the central dispatch process when the deadline for submission of dispatch bids and market ancillary service bids for that trading day arrives in accordance with the timetable if, and only if, no later valid dispatch bid or market ancillary service bid has been submitted pursuant to clauses 3.8.6, 3.8.6A, 3.8.7, 3.8.7A, 3.8.7B or paragraph (b).*
- (d) *AEMO, in consultation with Market Participants in accordance with the Rules consultation procedures, must develop and publish procedures to determine the circumstances when AEMO may use a prior dispatch bid or market ancillary service bid lodged by a Market Participant as a substitute for a default bid.*
- (e) *AEMO may disregard a default bid and substitute a prior dispatch bid or market ancillary service bid lodged by a Market Participant determined in accordance with a procedure developed under paragraph (d) as input to PASA, pre-dispatch and central dispatch.*

[214] Clause 3.8.10 Network constraints

In clause 3.8.10(a), omit "*scheduled generating units, semi-scheduled generating units, wholesale demand response units, scheduled network services, scheduled loads, ancillary service generating units or ancillary service loads*" and substitute "*scheduled resources or ancillary service units*".

[215] Clause 3.8.10 Network constraints

In clause 3.8.10(c)(2)(ii), omit "*Scheduled Generators, Semi-Scheduled Generators and Market Participants*" and substitute "*relevant Market Participants*".

[216] Clause 3.8.10 Network constraints

In clause 3.8.10(c)(4)(ii), omit "*Scheduled Generators, Semi-Scheduled Generators and Market Participants*" and substitute "*relevant Market Participants*".

[217] Clause 3.8.10 Network constraints

In clause 3.8.10(e)(2), omit "*scheduled generating units, semi-scheduled generating units, wholesale demand response units, scheduled loads, scheduled network services*" and substitute "*scheduled resources*".

[218] Clause 3.8.10 Network constraints

In clause 3.8.10(e)(2), omit "*dispatch offers and dispatch bids*" and substitute "*dispatch bids and market ancillary service bids*".

[219] Clause 3.8.14 Dispatch under conditions of supply scarcity

In clause 3.8.14(a)(1), omit "*and dispatch offers submitted by Scheduled Generators, Semi-Scheduled Generators or*".

[220] Clause 3.8.14 Dispatch under conditions of supply scarcity

In clause 3.8.14(a)(2), omit "*and dispatch offers*".

[221] Clause 3.8.16 Equal priced dispatch bids and dispatch offers

In the heading of clause 3.8.16, omit "*and dispatch offers*".

[222] Clause 3.8.16 Equal priced dispatch bids

In clause 3.8.16, omit "*are scheduled generating units, wholesale demand response units, semi-scheduled generating units or scheduled loads*" and substitute "*are scheduled resources (other than scheduled network services)*".

[223] Clause 3.8.16 Equal priced dispatch bids

In clause 3.8.16, omit all references to "*or dispatch offers*".

[224] Clause 3.8.17 Self-commitment

In clause 3.8.17(c), omit "*A Generator may*" and substitute "*A Scheduled Generator may*".

[225] Clause 3.8.18 Self-decommitment

In clause 3.8.18(a), omit "*A Generator may*" and substitute "*A Scheduled Generator may*".

[226] Clause 3.8.18 Self-decommitment

In clause 3.8.18(e), omit "*or Market Participant*".

[227] Clause 3.8.19 Dispatch inflexibilities

Omit clause 3.8.19(a) and substitute:

- (a) Subject to paragraph (a2), if a *Market Participant* reasonably expects one or more of its *scheduled resources* (other than *semi-scheduled generating units*) to be unable to operate in accordance with *dispatch instructions* in any *trading interval*, due to abnormal *plant* conditions or other abnormal operating requirements in respect of the relevant *scheduled resources*, it must advise *AEMO* through the *PASA* or in its *dispatch bid* in respect of that *scheduled resource*, that the relevant *scheduled resource* is *inflexible* in that *trading interval* and must specify a fixed *loading level* at which the relevant *scheduled resource* is to be operated in that *trading interval*.

[228] Clause 3.8.19 Dispatch inflexibilities

In clause 3.8.19(a1), omit "clause 3.8.19(a2)" and substitute "paragraph (a2)".

[229] Clause 3.8.19 Dispatch inflexibilities

In clause 3.8.19(a1), omit "*dispatch offer*" and substitute "*dispatch bid*".

[230] Clause 3.8.19 Dispatch inflexibilities

Omit clause 3.8.19(a2) and substitute:

- (a2) If paragraph (a) or paragraph (a1) applies, the relevant *Market Participant*:
 - (1) must not advise *AEMO* that a *scheduled resource* is *inflexible* under paragraph (a) or paragraph (a1) unless it reasonably expects the *scheduled resource* to be unable to operate in accordance with *dispatch instructions* in any *trading interval*, due to abnormal *plant* conditions or other abnormal operating requirements in respect of that *scheduled resource*; and
 - (2) must, as soon as practicable, advise *AEMO* that a *scheduled resource* is not *inflexible* once it no longer reasonably expects the *scheduled resource* to be unable to operate in accordance with *dispatch instructions* in any *trading interval*, due to abnormal *plant* conditions or other abnormal operating requirements in respect of that *scheduled resource*.

[231] Clause 3.8.19 Dispatch inflexibilities

Omit the opening paragraph of clause 3.8.19(b) and substitute:

- (b) Where a *Market Participant* advises *AEMO* that a *scheduled resource* is *inflexible* in accordance with paragraph (a) or paragraph (a1) the *Market Participant* must:

[232] Clause 3.8.19 Dispatch inflexibilities

In clause 3.8.19(b)(1), omit "*scheduled generating unit, semi-scheduled generating unit, wholesale demand response unit, scheduled network service or scheduled load*" and substitute "*scheduled resource*".

[233] Clause 3.8.19 Dispatch inflexibilities

In clause 3.8.19(b)(2), omit "clause 3.8.19(b)(2)" and substitute "subparagraph (b)(2)".

[234] Clause 3.8.19 Dispatch inflexibilities

Omit clause 3.8.19(c) and substitute:

- (c) Other than in *trading intervals* for which it has been specified by a *Market Participant* in the relevant *dispatch bid* for a *scheduled resource* that the *scheduled resource* is *inflexible*, *AEMO* will *dispatch* the *scheduled resource* in accordance with the prices and *price bands* specified in the relevant *dispatch bid*.

[235] Clause 3.8.19 Dispatch inflexibilities

Omit clause 3.8.19(d) and substitute:

- (d) In respect of *scheduled resources* which are not *slow start generating units*, *Market Participants* may provide *AEMO*, as part of a *dispatch bid* in respect of the relevant *scheduled resource*, with a *dispatch inflexibility profile*.

[236] Clause 3.8.19 Dispatch inflexibilities

In clause 3.8.19(e), after "for a *generating unit*", insert "or *integrated resource unit*".

[237] Clause 3.8.19 Dispatch inflexibilities

In clause 3.8.19(g), omit "a *Scheduled Generator's, Semi-Scheduled Generator's* or" and substitute "an applicable".

[238] Clause 3.8.20 Pre-dispatch schedule

In clause 3.8.20(a), omit "and *dispatch offers*".

[239] Clause 3.8.20 Pre-dispatch schedule

In clause 3.8.20(c)(1), omit ", *dispatch offers* and *market ancillary service offers*" and substitute "and *market ancillary service bids*".

[240] Clause 3.8.20 Pre-dispatch schedule

In clause 3.8.20(c)(2), omit "*power system load*" and substitute "of total load".

[241] Clause 3.8.20 Pre-dispatch schedule

In clause 3.8.20(g), omit "Each *Scheduled Generator, Demand Response Service Provider, Scheduled Network Service Provider* and *Market Customer* which has classified a *scheduled load* and *Market Participant* (which has classified an *ancillary service generating unit* or *ancillary service load*)" and substitute "The *Market Participant* in respect of a *scheduled resource* or an *ancillary service unit*".

[242] Clause 3.8.20 Pre-dispatch schedule

In clause 3.8.20(i), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

[243] Clause 3.8.20 Pre-dispatch schedule

In clause 3.8.20(j), omit the opening paragraph and substitute:

- (j) Subject to clause 3.8.20(b), the following *pre-dispatch* outputs relating specifically to a *scheduled resource* or an *ancillary service unit* must be made available electronically to the relevant *Market Participant* on a confidential basis:

[244] Clause 3.8.20 Pre-dispatch schedule

In clause 3.8.20(j)(2), omit "scheduled entity" and substitute "*scheduled resource* or *ancillary service unit*".

[245] Clause 3.8.20 Pre-dispatch schedule

In clause 3.8.20(j)(3), omit "*ancillary services*" and substitute "*market ancillary services*".

[246] Clause 3.8.20 Pre-dispatch schedule

In clause 3.8.20(j)(4), omit "*ancillary services*" and substitute "*market ancillary services*".

[247] Clause 3.8.20 Pre-dispatch schedule

Omit clause 3.8.20(k) and substitute:

- (k) Where the *pre-dispatch schedule* may have failed to *dispatch* a *scheduled generating unit*, a *semi-scheduled generating unit*, *scheduled integrated resource unit* or a *scheduled load*, to maximise the joint value of *energy* and *ancillary services pre-dispatch* outputs of the relevant *scheduled resource*, due to the relevant *scheduled resource* operating outside its *enablement limit*, *AEMO* must notify the relevant *Market Participant* electronically on a confidential basis.

[248] Clause 3.8.21 On-line dispatch process

In clause 3.8.21(a), omit "and *dispatch offers*".

[249] Clause 3.8.21 On-line dispatch process

Omit clause 3.8.21(d) and substitute:

- (d) *AEMO* will issue *dispatch instructions* to *Market Participants* electronically.

[250] Clause 3.8.21 On-line dispatch process

In clause 3.8.21(e), omit "the methods described in paragraph (d) are not possible" and substitute "issuing *dispatch instructions* electronically is not reasonably possible".

[251] Clause 3.8.21 On-line dispatch process

In clause 3.8.21(f), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

[252] Clause 3.8.21 On-line dispatch process

In clause 3.8.21(j), omit "*scheduled load, wholesale demand response unit, scheduled generating unit* or *semi-scheduled generating unit*" and substitute "*scheduled resource*".

[253] Clause 3.8.21 On-line dispatch process

In clause 3.8.21(j), omit "*plant*" and substitute "*scheduled resource*".

[254] Clause 3.8.21 On-line dispatch process

In clause 3.8.21(k), omit "*scheduled load, wholesale demand response unit* or *generating units*" and substitute "*scheduled resource*".

[255] Clause 3.8.21 On-line dispatch process

In clause 3.8.21(l), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

[256] Clause 3.8.21 On-line dispatch process

Omit clause 3.8.21(m) and substitute:

- (m) Where the *central dispatch* process may have failed to *dispatch* a *scheduled generating unit, semi-scheduled generating unit, integrated resource* or *scheduled load* to maximise the joint value of *energy* and *ancillary services* due to the relevant *scheduled resource* operating outside its *enablement limit*, *AEMO* must notify the relevant *Market Participant* electronically on a confidential basis.

[257] Clause 3.8.22 Rebidding

In clause 3.8.22(a), omit ", *dispatch offers* and *market ancillary service offers*" and substitute "and *market ancillary service bids*".

[258] Clause 3.8.22 Rebidding

In clause 3.8.22(b)(1), omit "*generating units, scheduled network services, wholesale demand response units and scheduled loads*" and substitute "*scheduled resource*".

[259] Clause 3.8.22 Rebidding

In clause 3.8.22(b), in the end paragraph, omit "*dispatch offer*".

[260] Clause 3.8.22A Offers, bids and rebids must not be false or misleading

Omit the heading of clause 3.8.22A and substitute:

3.8.22A Bids and rebids must not be false or misleading

[261] Clause 3.8.22A Bids and rebids must not be false or misleading

In clause 3.8.22A(a), omit "*dispatch offer*".

[262] Clause 3.8.22A Bids and rebids must not be false or misleading

In clause 3.8.22A(a1), omit "*dispatch offer*".

[263] Clause 3.8.22A Bids and rebids must not be false or misleading

In clause 3.8.22A(a1), omit all references to "offer, bid" and substitute "*dispatch bid*".

[264] Clause 3.8.22A Bids and rebids must not be false or misleading

In clause 3.8.22A(b), omit "*dispatch offer*".

[265] Clause 3.8.22A Bids and rebids must not be false or misleading

In clause 3.8.22A(b), omit "such an offer, bid" and substitute "*the dispatch bid*".

[266] Clause 3.8.22A Bids and rebids must not be false or misleading

In clause 3.8.22A(b1), omit "*dispatch offer*".

[267] Clause 3.8.22A Bids and rebids must not be false or misleading

In clause 3.8.22A(c), omit "*dispatch offer*".

[268] Clause 3.8.22A Bids and rebids must not be false or misleading

In clause 3.8.22A(c)(1), omit "*dispatch offers*".

[269] Clause 3.8.22A Bids and rebids must not be false or misleading

In clause 3.8.22A(d), omit "*dispatch offer* or".

[270] Clause 3.8.22A Bids and rebids must not be false or misleading

In clause 3.8.22A(e)(2), after "*more generating units*", insert "*or integrated resource units*".

[271] Clause 3.8.22A Bids and rebids must not be false or misleading

In clause 3.8.22A(e)(2), after "*the loading level of any generating units*", insert "*or integrated resource units*".

[272] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

In clause 3.8.23(a), after each occasion of "*scheduled generating unit*," insert "*scheduled integrated resource unit*".

[273] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

In clause 3.8.23(c), in the opening paragraph, omit "*scheduled generating unit, semi-scheduled generating unit, scheduled network service or scheduled load*" and substitute "*scheduled resource*".

[274] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

In clause 3.8.23(c)(1), omit "*Scheduled Generator, Semi-Scheduled Generator, Scheduled Network Service Provider or Market Customer* that the relevant *generating*

unit, scheduled network service or scheduled load" and substitute "relevant *Market Participant* that the relevant *scheduled resource*".

[275] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

In clause 3.8.23(c)(2), omit "*Scheduled Generator, Semi-Scheduled Generator, Scheduled Network Service Provider or Market Customer*" and substitute "relevant *Market Participant*".

[276] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

Omit clause 3.8.23(c)(3) and substitute:

- (3) should a *Scheduled Generator, Semi-Scheduled Generator or Scheduled Integrated Resource Provider* fail to meet the requests set out subparagraphs (1) and (2) or if *AEMO* is not satisfied that the *generating unit or scheduled integrated resource unit* will respond to future *dispatch instructions* as required, *AEMO* must direct the *generating unit or scheduled integrated resource unit* to follow, as far as is practicable, a specified output and (where applicable) consumption profile to be determined at its discretion by *AEMO*;

[277] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

In clause 3.8.23(c)(5), omit "*default dispatch bid*" and substitute "*default bid*".

[278] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

Omit clause 3.8.23(d) and substitute:

- (d) Until a *Market Participant* satisfactorily responds to the requests under paragraphs (c)(1) and (2) and *AEMO* is satisfied that the relevant *scheduled resource* will respond to future *dispatch instructions* as required, that *scheduled resource* continues to be non-conforming.

[279] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

In clause 3.8.23(e), omit "a *generating unit, scheduled network service or scheduled load* (as the case may be)" and substitute "a *scheduled resource*".

[280] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

In clause 3.8.23(e), omit "*Scheduled Generator, Semi-Scheduled Generator, Scheduled Network Service Provider or Market Customer*" and substitute "relevant *Market Participant*".

[281] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

In clause 3.8.23(f), omit "*Scheduled Generator, Semi-Scheduled Generator or Scheduled Network Service Provider* (whichever is relevant)" and substitute "relevant *Market Participant*".

[282] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

In clause 3.8.23(g), in the opening paragraph, omit "*ancillary service generating unit or ancillary service load*" and substitute "*ancillary service unit*".

[283] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

In clause 3.8.23(g)(1), omit "*ancillary service generating unit or ancillary service load*" and substitute "*ancillary service unit*".

[284] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

In clause 3.8.23(g)(2), omit "*ancillary service generating unit or ancillary service load*" and substitute "*ancillary service unit*".

[285] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

In clause 3.8.23(g)(3), omit all references to "*ancillary service generating unit* or *ancillary service load*" and substitute "*ancillary service unit*".

[286] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

In clause 3.8.23(h), omit all references to "*ancillary service generating unit* or *ancillary service load*" and substitute "*ancillary service unit*".

[287] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units

In clause 3.8.23(i), omit "*default dispatch bid*" and substitute "*default bid*".

[288] Clause 3.9.1 Principles applicable to spot price determination

Omit clause 3.9.1(a)(3) and substitute:

- (3) *spot prices* determine *dispatch* such that a *generating unit, integrated resource unit, wholesale demand response unit* or *scheduled load* whose *dispatch bid* at a location is below the *spot price* at that location will normally be *dispatched*;

[289] Clause 3.9.1 Principles applicable to spot price determination

Omit clause 3.9.1(a)(3A) and substitute:

- (3A) *scheduled resources, market generating units* and *non-scheduled integrated resource units* which operate in accordance with a *direction* are to be taken into account in the *central dispatch* process, but the *dispatch bid* for the relevant *plant* will not be used in the calculation of the *spot price* for the relevant *trading interval*;

[290] Clause 3.9.1 Principles applicable to spot price determination

In clause 3.9.1(a)(3B), omit "*ancillary service generating units* and *ancillary service loads*" and substitute "*ancillary service units*".

[291] Clause 3.9.1 Principles applicable to spot price determination

In clause 3.9.1(a)(3B), omit "*market ancillary service offer* which operates in accordance with a fixed constraint" and substitute "*market ancillary service bid* in respect of the relevant *ancillary service unit*".

[292] Clause 3.9.1 Principles applicable to spot price determination

In clause 3.9.1(a)(3C), omit "*generating units or loads*" and substitute "*scheduled resources, market generating units and non-scheduled integrated resource units*".

[293] Clause 3.9.1 Principles applicable to spot price determination

In clause 3.9.1(a)(3C), omit "*market ancillary service offer* which operates in accordance with a *direction*," and substitute "*market ancillary service bid* in respect of the relevant *plant*".

[294] Clause 3.9.1 Principles applicable to spot price determination

In clause 3.9.1(a)(4), omit "*network dispatch offers*" and substitute "*dispatch bids* for *scheduled network services*".

[295] Clause 3.9.1 Principles applicable to spot price determination

Omit clause 3.9.1(a)(5) and substitute:

- (5) where the *energy* output of a *Market Participant* is limited above or below the level at which it would otherwise have been *dispatched* by *AEMO* on the basis of its *dispatch bid* due to a *direction* to provide *ancillary services*, the *Registered Participant's dispatch bid* is taken into account in the determination of *dispatch* but the *dispatch bid* will not be used in the calculation of the *spot price* for the relevant *trading interval*;

[296] Clause 3.9.1 Principles applicable to spot price determination

In clause 3.9.1(a)(5A), omit "*market ancillary service offers*" and substitute "*market ancillary service bids*".

[297] Clause 3.9.2 Determination of spot prices

In clause 3.9.2(e)(1), omit "to shed *load*" and substitute "for *load shedding*".

[298] Clause 3.9.2 Determination of spot prices

In clause 3.9.2(k), after each occasion of "*generating unit*", insert ", *scheduled integrated resource unit*".

[299] Clause 3.9.2 Determination of spot prices

In clause 3.9.2(k), omit "that *generating unit* or *scheduled load*" and substitute "the prices in a *dispatch bid* for the relevant *scheduled resource*".

[300] Clause 3.9.2A Determination of ancillary services prices

Omit clause 3.9.2A(d) and substitute:

- (d) If a test is being conducted on any *scheduled resource* in accordance with clause 3.11.2 and for the purpose of conducting that test, the relevant *scheduled resource* is excluded from *central dispatch*, then the prices in a *market ancillary services bid* relating to that *plant* cannot be used to set *ancillary service prices*.

[301] Clause 3.9.2B Pricing where AEMO determines a manifestly incorrect input

In clause 3.9.2B(a), in the definition of **input** omit "and *dispatch offers*".

[302] Clause 3.9.3 Pricing in the event of intervention by AEMO

In clause 3.9.3(b1)(1), after "by any *generating unit*", insert "or *integrated resource unit*".

[303] Clause 3.9.3 Pricing in the event of intervention by AEMO

In clause 3.9.3(b1)(2), after "by any *generating unit*", insert "or *integrated resource unit*".

[304] Clause 3.9.3 Pricing in the event of intervention by AEMO

In clause 3.9.3(b1)(3), omit "*ancillary service generating unit*" and substitute "*ancillary service unit*".

[305] Clause 3.9.3 Pricing in the event of intervention by AEMO

In clause 3.9.3(b1)(4), omit "*ancillary service generating unit*" and substitute "*ancillary service unit*".

[306] Clause 3.9.3 Pricing in the event of intervention by AEMO

In clause 3.9.3(b2)(1), omit "or *ancillary service generating unit*" and substitute ", *integrated resource unit* or *ancillary service unit*".

[307] Clause 3.9.3C Reliability standard and interim reliability measure

In clause 3.9.3C(b)(1)(i), after each occasion of "a *generating unit*", insert ", *integrated resource unit*".

[308] Clause 3.9.3C Reliability standard and interim reliability measure

In clause 3.9.3C(b)(1)(ii), after "new *generating units*", insert ", *integrated resource units*".

[309] Clause 3.9.3C Reliability standard and interim reliability measure

In clause 3.9.3C(b)(2)(i), after each occasion of "*generating unit*", insert ", *integrated resource unit*".

[310] Clause 3.9.3C Reliability standard and interim reliability measure

In clause 3.9.3C(b)(2)(iii), omit "*generating facilities*" and substitute "electricity production *facilities*".

[311] Clause 3.9.7 Pricing for constrained-on units

In clause 3.9.7(a), after the first use of "*scheduled generating unit*", insert ", *scheduled integrated resource unit*".

[312] Clause 3.9.7 Pricing for constrained-on units

In clause 3.9.7(a), omit "*scheduled generating unit* or *wholesale demand response units*" and substitute "*scheduled resource*".

[313] Clause 3.9.7 Pricing for constrained-on units

In clause 3.9.7(a), omit "*dispatch offer* or *dispatch bid* as applicable" and substitute "*dispatch bid*".

[314] Clause 3.9.7 Pricing for constrained-on units

In clause 3.9.7(b), after "A *Scheduled Generator*", insert ", *Scheduled Integrated Resource Provider*".

[315] Clause 3.9.7 Pricing for constrained-on units

In clause 3.9.7(b), omit "*dispatch offer price*" and substitute "*dispatch bid price*".

[316] Clause 3.9.7 Pricing for constrained-on units

In clause 3.9.7(c)(1), omit "*inertia generating unit*" and substitute "*inertia unit*".

[317] Clause 3.9.7 Pricing for constrained-on units

In clause 3.9.7(c)(2), omit "*system strength generating unit*" and substitute "*system strength unit*".

[318] Clause 3.9.7 Pricing for constrained-on units

In clause 3.9.7(c), omit "the relevant *generating unit*" and substitute "the relevant *inertia unit* or *system strength unit*".

[319] Clause 3.9.7 Pricing for constrained-on units

In clause 3.9.7(c), omit "*dispatch offer*" and substitute "*dispatch bid*".

[320] Clause 3.9.7 Pricing for constrained-on units

In clause 3.9.7(c), omit "the *generating unit*" and substitute "the *inertia unit* or *system strength unit*".

[321] Clause 3.9.7 Pricing for constrained-on units

In clause 3.9.7(d), after "A *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

[322] Clause 3.9.7 Pricing for constrained-on units

In clause 3.9.7(d), omit "*dispatch offer price*" and substitute "*dispatch bid price*".

[323] Clause 3.11.2 Market ancillary services

In clause 3.11.2(f), omit "a *Market Participant* which has classified a *generating unit* as an *ancillary service generating unit* or a *load* as an *ancillary service load*" and substitute "an *Ancillary Service Provider*".

[324] Clause 3.11.2 Market ancillary services

In clause 3.11.2(f), omit "the *ancillary service generating unit* or *ancillary service load*" and substitute "its *ancillary service unit*".

[325] Clause 3.11.2 Market ancillary services

In clause 3.11.2(g), omit "*Market Participants*" and substitute "*Ancillary Service Providers*".

[326] Clause 3.11.2 Market ancillary services

Omit clause 3.11.2(h) and substitute:

- (h) *AEMO* may request an *Ancillary Services Provider* to provide to *AEMO* a report detailing how the relevant *ancillary service unit* responded to a particular change or particular changes in the *frequency* of the *power system*. An *Ancillary Service Provider* must provide a report requested under this paragraph 3.11.2(h) promptly but, in any event, in no more than 20 *business days* after notice to do so.

[327] Clause 3.11.2 Market ancillary services

Omit clause 3.11.2(i) and substitute:

- (i) *AEMO* may from time to time require an *Ancillary Service Provider* to demonstrate the relevant *ancillary service unit's* capability to provide the *market ancillary service* to the satisfaction of *AEMO* according to standard test procedures. An *Ancillary Service Provider* must promptly comply with a request by *AEMO* under this clause.

[328] Clause 3.12.2 Affected Participants and Market Customers entitlements to compensation in relation to AEMO intervention

In clause 3.12.2(a)(1), after "regarding the *scheduled generating unit*", insert ", *scheduled integrated resource unit*".

[329] Clause 3.12.2 Affected Participants and Market Customers entitlements to compensation in relation to AEMO intervention

In clause 3.12.2(a)(2), omit "multiplied by" and substitute "and".

[330] Clause 3.12.2 Affected Participants and Market Customers entitlements to compensation in relation to AEMO intervention

In clause 3.12.2(c)(1)(i), omit "or *scheduled generating unit* would have" and substitute ", *scheduled generating unit* or *scheduled integrated resource unit* would have".

[331] Clause 3.12.2 Affected Participants and Market Customers entitlements to compensation in relation to AEMO intervention

In clause 3.12.2(j)(1), after "that *scheduled generating unit*", insert ", *scheduled integrated resource unit*".

[332] Clause 3.12.2 Affected Participants and Market Customers entitlements to compensation in relation to AEMO intervention

In clause 3.12.2(j)(1)(i), after "*scheduled generating unit*", insert ", *scheduled integrated resource unit*".

[333] Clause 3.12.2 Affected Participants and Market Customers entitlements to compensation in relation to AEMO intervention

In clause 3.12.2(j)(1)(ii), after "*scheduled generating unit*", insert ", *scheduled integrated resource unit*".

[334] Clause 3.12.2 Affected Participants and Market Customers entitlements to compensation in relation to AEMO intervention

In clause 3.12.2(j)(1)(iii), after "*scheduled generating unit*", insert ", *scheduled integrated resource unit*".

[335] Clause 3.13.1 Provision of information

In clause 3.13.1(a), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

[336] Clause 3.13.2 Systems and procedures

In clause 3.13.2(c), omit "*Scheduled Generator, Semi Scheduled Generator* or".

[337] Clause 3.13.2 Systems and procedures

In clause 3.13.2(f), omit "*Scheduled Generator, Semi Scheduled Generator* and".

[338] Clause 3.13.2 Systems and procedures

In clause 3.13.2(g), omit "*Scheduled Generator, Semi Scheduled Generator* or".

[339] Clause 3.13.2 Systems and procedures

In clause 3.13.2(g), omit all references to "*Generator* or".

[340] Clause 3.13.2 Systems and procedures

In clause 3.13.2(h), omit "*Scheduled Generator, Semi Scheduled Generator* or".

[341] Clause 3.13.2 Systems and procedures

In clause 3.13.2(i), omit "*Scheduled Generators, Semi Scheduled Generators* and".

[342] Clause 3.13.2 Systems and procedures

In clause 3.13.2(i), omit "*Generator* or".

[343] Clause 3.13.2 Systems and procedures

In clause 3.13.2(k), omit "*Scheduled Generator, Semi Scheduled Generator* or".

[344] Clause 3.13.3 Standing data

In clause 3.13.3(a)(1), omit "*Scheduled Generators, Semi Scheduled Generators* and".

[345] Clause 3.13.3 Standing data

In clause 3.13.3(a)(1), omit "*Scheduled Generator, Semi Scheduled Generator* or".

[346] Clause 3.13.3 Standing data

In clause 3.13.3(a)(1), omit "*bid and offer validation data*" and substitute "*bid valuation data*".

[347] Clause 3.13.3 Standing data

Omit clause 3.13.3(2) and substitute:

- (2) a list of all of the *Market Participants* who will cease to be *Market Participants* and the time that each listed *Market Participant* will cease to be a *Market Participant*;

[348] Clause 3.13.3 Standing data

Omit clause 3.13.3(a)(2A) and substitute:

- (2A) a list of the *expected closure years* and *closure dates* for all *scheduled generating units, semi-scheduled generating units* and *scheduled integrated resource units* notified under clauses 2.1B.3 and 2.10.1(c1), and make such information available on *AEMO's* website;

[349] Clause 3.13.3 Standing data

In clause 3.13.3(a)(3), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

[350] Clause 3.13.3 Standing data

In clause 3.13.3(a)(3), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

[351] Clause 3.13.3 Standing data

In clause 3.13.3(b), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

[352] Clause 3.13.3 Standing data

In clause 3.13.3(b), omit "*bid and offer valuation data*" and substitute "*bid validation data*".

[353] Clause 3.13.3 Standing data

In clause 3.13.3(b), omit "*scheduled loads, scheduled network services, wholesale demand response units and generating units*" and substitute "*scheduled resources*".

[354] Clause 3.13.3 Standing data

In clause 3.13.3(b1), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

[355] Clause 3.13.3 Standing data

In clause 3.13.3(b1), omit "*scheduled loads, scheduled network services, wholesale demand response units and generating units*" and substitute "*scheduled resources*".

[356] Clause 3.13.3 Standing data

In clause 3.13.3(b1)(i) omit all references to "or *semi-scheduled generating unit*" and substitute "*semi-scheduled generating unit* or *scheduled integrated resource unit*".

[357] Clause 3.13.3 Standing data

In clause 3.13.3(c), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

[358] Clause 3.13.3 Standing data

In clause 3.13.3(d), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

[359] Clause 3.13.3 Standing data

In clause 3.13.3(h), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

[360] Clause 3.13.3 Standing data

In clause 3.13.3(h), omit "*bid and offer valuation data*" and substitute "*bid validation data*".

[361] Clause 3.13.3 Standing data

Omit clause 3.13.3(j) and substitute:

- (j) *AEMO* must conduct an annual review of *bid validation data* in consultation with the relevant *Market Participants*, who must advise *AEMO* of any required changes to the data.

[362] Clause 3.13.3 Standing data

In clause 3.13.3(k), omit "*bid and offer valuation data*" and substitute "*bid validation data*".

[363] Clause 3.13.3 Standing data

In clause 3.13.3(12)(1), after "the *Generator*", insert "or *Integrated Resource Provider* (or the person required under the *Rules* to register as such)".

[364] Clause 3.13.3 Standing data

In clause 3.13.3(12)(1), omit "that *Generator*" and substitute "that person".

[365] Clause 3.13.3 Standing data

Omit clause 3.13.3(12)(2) and substitute "[deleted]".

[366] Clause 3.13.3 Standing data

In clause 3.13.3(12)(3), after each occasion of "the *Generator*", insert "or *Integrated Resource Provider*".

[367] Clause 3.13.3 Standing data

In clause 3.13.3(15), in the opening paragraph, after "*power system* and *generating system*", insert "or *integrated resource system*".

[368] Clause 3.13.3 Standing data

In clause 3.13.3(15)(2), after "*generating system*", insert "*integrated resource unit, integrated resource system*".

[369] Clause 3.13.3 Standing data

In clause 3.13.3(m), after "aggregate *generating units*", insert "*integrated resource units*".

[370] Clause 3.13.3A Statement of opportunities

After clause 3.13.3A(a)(2), insert:

- (2A) capabilities of existing *integrated resource units* and *integrated resource units* for which formal commitments have been made for construction or installation;

[371] Clause 3.13.3A Statement of opportunities

In clause 3.13.3A(a)(3), after "*generating units*", insert "or *integrated resource units*".

[372] Clause 3.13.3A Statement of opportunities

In clause 3.13.3A(a)(4), after "*generating units*", insert "*and integrated resource units*".

[373] Clause 3.13.3A Statement of opportunities

In clause 3.13.3A(a)(8), after "*generating units*", insert "*integrated resource units*".

[374] Clause 3.13.3A Statement of opportunities

Omit clause 3.13.3A(a)(9), and substitute:

- (9) operational and economic information about the *market* to assist planning by *Market Participants* and potential *Market Participants*; and

[375] Clause 3.13.3A Statement of opportunities

In clause 3.13.3A(f) omit all references to "*Scheduled Generator, Semi Scheduled Generator*".

[376] Clause 3.13.4 Spot market

In clause 3.13.4(f)(1), omit "*most probable peak power system load*" and substitute "*most probable peak load for the total power system*".

[377] Clause 3.13.4 Spot market

In clause 3.13.4(f)(4), after "*aggregate generating plant*", insert "*and integrated resource units*".

[378] Clause 3.13.4 Spot market

Omit clause 3.13.4(f)(5A) and substitute:

- (5A) the aggregated MW allowance (if any) made by *AEMO* for *generation from non-scheduled generating systems and non-scheduled integrated resource units* in each forecast under:
 - (i) subparagraphs (f)(1), (f)(2) and (f)(3); and
 - (ii) **[deleted]**
 - (iii) **[deleted]**
 - (iv) subparagraph (f)(5), but not including shortages of *scheduled reserve* or projected *market ancillary service* surpluses and deficits for each *region*.

[379] Clause 3.13.4 Spot market

Omit clause 3.13.4(f)(5B) and substitute:

(5B) in respect of each forecast referred to in:

- (i) subparagraphs (f)(1), (f)(2) and (f)(3); and
- (ii) [deleted];
- (iii) [deleted];
- (iv) subparagraph (f)(5), but not including shortages of *scheduled reserve* or projected *market ancillary service* surpluses and deficits for each *region*,

a value that is the sum of that forecast and the relevant aggregated MW allowance (if any) referred to in clause 3.13.4(f)(5A); and

[380] Clause 3.13.4 Spot market

In clause 3.13.3(f)(6)(iii), omit "*the dispatch of generation or load*" and substitute "*dispatch*".

[381] Clause 3.13.4 Spot market

In clause 3.13.3(h), after "*or generating unit*", insert "*or integrated resource unit*".

[382] Clause 3.13.4 Spot market

In clause 3.13.3(h1), after "*or generating unit*", insert "*or integrated resource unit*".

[383] Clause 3.13.4 Spot market

In clause 3.13.3(n), omit "*regional and total interconnected system loads and energies*" and substitute "*MW load and generation for each region and the power system*".

[384] Clause 3.13.4 Spot market

In clause 3.13.3(p), omit the opening paragraph and substitute:

- (p) Each *day*, in accordance with the *timetable*, *AEMO* must *publish* details of final *dispatch bids* and *market ancillary service bids* and received and actual availabilities of *scheduled resources* and *market ancillary services* for the previous *trading day*, including:

[385] Clause 3.13.4 Spot market

In clause 3.13.4(p)(1), omit "*Scheduled Generator, Semi-Scheduled Generator* or" and substitute "relevant".

[386] Clause 3.13.4 Spot market

In clause 3.13.4(p)(2), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

[387] Clause 3.13.4 Spot market

In clause 3.13.4(p)(2), omit "*dispatch offer*".

[388] Clause 3.13.4 Spot market

In clause 3.13.4(p)(2), omit "*market ancillary offer*" and substitute "*market ancillary service bid*".

[389] Clause 3.13.4 Spot market

In clause 3.13.4(p)(3), omit "or *dispatch offer prices*".

[390] Clause 3.13.4 Spot market

Omit clause 3.13.4(p)(5) and substitute:

- (5) the telemetered *ramp rate* of each *generating unit, integrated resource unit, scheduled load* and *scheduled network service*;

[391] Clause 3.13.4 Spot market

In clause 3.13.4(p)(6), omit "*Scheduled Generator, Semi-Scheduled Generator* or" and substitute "relevant".

[392] Clause 3.13.4 Spot market

Omit clause 3.13.4(q)(1) and substitute:

- (1) for each *scheduled resource, dispatched generation, dispatched wholesale demand response, dispatched network service* or *dispatched load* (as applicable) in each *trading interval*;

[393] Clause 3.13.4 Spot market

After clause 3.13.4(r)(1), insert:

- (1A) *actual generation* for each *scheduled integrated resource unit* and *non-scheduled integrated resource unit* or *non-scheduled integrated resource system*;

[394] Clause 3.13.4 Spot market

In clause 3.13.4(r)(3), after "*actual load* for each", insert "*scheduled integrated resource unit* and".

[395] Clause 3.13.4 Spot market

In clause 3.13.4(t), after "that is less than 30 MW, insert "or *non-scheduled integrated resource units* or *non-scheduled integrated resource systems* that have a *nameplate rating* that is less than 5 MW".

[396] Clause 3.13.4 Spot market

In clause 3.13.4(u)(1), after "*non-scheduled generating systems*", insert "*or non-scheduled integrated resource systems*".

[397] Clause 3.13.4 Spot market

In clause 3.13.4(u)(2), omit "*or non-scheduled generating system*" and substitute "*, non-scheduled generating system, non-scheduled integrated resource unit or non-scheduled integrated resource system*".

[398] Clause 3.13.4 Spot market

In clause 3.13.4(u)(3), omit "*regional demand value*" and substitute "*MW load for the relevant region*".

[399] Clause 3.13.4 Spot market

In clause 3.13.4(x), after "*non-scheduled generating systems*", insert "*and non-scheduled integrated resource systems*".

**[400] Clause 3.13.7 Monitoring of significant variation
between forecast and actual prices by
AER**

Omit clause 3.13.7(d)(3) and substitute:

- (3) identify the marginal *scheduled generating units, semi-scheduled generating units* and *scheduled integrated resource units* for the relevant period and all *scheduled generating units, semi-scheduled generating units* and *scheduled integrated resource units* for which any *dispatch bid* for a *trading interval* in the relevant period was equal to or greater than \$5,000/MWh and compare these *dispatch bids* to relevant *dispatch bids* in previous *trading intervals*.

[401] Clause 3.13.8 Public information

In clause 3.13.8(a)(2), omit "*power system*" and substitute "MW".

[402] Clause 3.13.12 NMI Standing Data

In clause 3.13.12(a)(2), omit "*or a class of Market Customers,*" and substitute "*a class of Market Customers or Small Resource Aggregators*".

[403] Clause 3.13.12 NMI Standing Data

In clause 3.13.12(c)(1), omit "*or a specified class of Market Customers*" and substitute "*a specified class of Market Customers or Small Resource Aggregators*".

[404] Clause 3.13.12 NMI Standing Data

In clause 3.13.12(c)(4), after "particular *Market Customers*", insert "or *Small Resource Aggregators*".

[405] Clause 3.13.12 NMI Standing Data

In clause 3.13.12(c)(5), after "the *Market Customers*", insert "or *Small Resource Aggregator*".

[406] Clause 3.13.12 NMI Standing Data

In clause 3.13.12(d)(2), after "*Market Customers*", insert "and *Small Resource Aggregators*".

[407] Clause 3.13.12 NMI Standing Data

In clause 3.13.12(e), in the opening paragraph, after "*Market Customer*", insert "or *Small Resource Aggregator*".

[408] Clause 3.13.12 NMI Standing Data

In clause 3.13.12(e)(1), omit "or a member of a class of *Market Customers*" and substitute ", a member of a class of *Market Customers* or a *Small Resource Aggregator*".

[409] Clause 3.13.12 NMI Standing Data

In clause 3.13.12(g), after "*Market Customers*", insert "or *Small Resource Aggregators*".

[410] Clause 3.13.12 NMI Standing Data

In clause 3.13.12(i), in the opening paragraph, after "a *Market Customer*", insert "or *Small Resource Aggregator*".

[411] Clause 3.13.12 NMI Standing Data

In clause 3.13.12(i)(1), after "the *Market Customer*", insert "or *Small Resource Aggregator*".

[412] Clause 3.13.12 NMI Standing Data

In clause 3.13.12(i)(1), omit the second references to "*Market Customer*" and substitute "the relevant *Market Participant*".

[413] Clause 3.13.12 NMI Standing Data

In clause 3.13.12(i)(2), after each reference to "the *Market Customer*", insert "or *Small Resource Aggregator*".

[414] Clause 3.13.12 NMI Standing Data

In clause 3.13.12(i)(3), after each reference to "*Market Customer*", insert "*or Small Resource Aggregator*".

[415] Clause 3.13.12 NMI Standing Data

In clause 3.13.12(j)(1), after "*to Market Customers*", insert "*and Small Resource Aggregators*".

[416] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(a1), after "*a small generating unit*", insert "*and reference to a market integrated resource unit is not taken to include a small integrated resource unit*".

[417] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(b)(3), omit "*the scheduled generating units and market generating units included*" and substitute "*the scheduled generating units, scheduled integrated resource units, market generating units and market integrated resource units included*".

[418] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(b)(4), omit "*a scheduled generating unit or market generating unit included*" and substitute "*a scheduled generating unit, scheduled integrated resource unit, market generating unit and market integrated resource unit included*".

[419] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(b)(5), omit "*the scheduled generating units and market generating units included*" and substitute "*the scheduled generating units, scheduled integrated resource units, market generating units and market integrated resource units included*".

[420] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(c)(1), omit "*the scheduled generating units and market generating units included*" and substitute "*the scheduled generating units, scheduled integrated resource units, market generating units and market integrated resource units included*".

[421] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(c)(2), omit "the *scheduled generating units* and *market generating units* included" and substitute "the *scheduled generating units, scheduled integrated resource units, market generating units* and *market integrated resource units* included".

[422] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(i)(1), omit "the *scheduled generating units* and *market generating units* included" and substitute "the *scheduled generating units, scheduled integrated resource units, market generating units* and *market integrated resource units* included".

[423] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(i)(2), omit "each *scheduled generating unit* or *market generating unit* referred" and substitute "each *scheduled generating unit, scheduled integrated resource unit, market generating unit* and *market integrated resource unit* referred".

[424] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(j), omit "the *scheduled generating units* and *market generating units* included" and substitute "the *scheduled generating units, scheduled integrated resource units, market generating units* and *market integrated resource units* included".

[425] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(k), omit "any *scheduled generating units* or *market generating units* included" and substitute "any *scheduled generating units, scheduled integrated resource units, market generating units* and *market integrated resource units* included".

[426] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(l)(1), omit "any *scheduled generating units* or *market generating units* included" and substitute "any *scheduled generating units, scheduled integrated resource units, market generating units* and *market integrated resource units* included".

[427] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(m)(1), after "or *market generating unit*", insert ",or an *integrated resource unit* is classified as a *scheduled integrated resource unit* or *market integrated resource unit*,".

[428] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(m)(2), after "for that *generating unit*", insert "or *integrated resource unit*".

[429] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(m), after "to include data for that *generating unit*", insert "or *integrated resource unit*".

[430] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(n), after "for any *generating units*", insert "or *integrated resource units*".

[431] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index

In clause 3.13.14(o)(1), omit "new *scheduled generating units* or *market generating units* included" and substitute "new *scheduled generating units*, *scheduled integrated resource units*, *market generating units* or *market integrated resource units* included".

[432] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods

In clause 3.14.5A(a)(1), after "*Scheduled Generators*", insert "and *Scheduled Integrated Resource Providers*".

[433] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods

In clause 3.14.5A(d), in the definition of "MWE", omit "*ancillary service generating unit*" and substitute "*ancillary service unit*".

[434] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods

In clause 3.14.5A(e), in the definition of " $BC_{(av)}$ ", omit "of all *Scheduled Generators* in the same class of *Generator* and" and substitute "of all *Scheduled Generators* or *Scheduled Integrated Resource Providers* in the same class and".

[435] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods

In clause 3.14.5A(e), in the definition of "FC", after "for the relevant *Generator*", insert "or *Scheduled Integrated Resource Provider*".

[436] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods

In clause 3.14.5A(e), in the definition of "E", after "for the relevant *Generator*", insert "or *Scheduled Integrated Resource Provider*".

[437] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods

In clause 3.14.5A(e), in the definition of "VOC", after "for the relevant *Generator*", insert "or *Scheduled Integrated Resource Provider*".

[438] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods

In clause 3.14.5A(h)(1), after "of *Scheduled Generator*", insert ", *Scheduled Integrated Resource Provider*".

[439] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods

In clause 3.14.5A(h)(2), after "of *Scheduled Generator*", insert ", *Scheduled Integrated Resource Provider*".

[440] Clause 3.14.5B Claims for additional compensation due to market suspension pricing schedule periods

In clause 3.14.5B(a)(3), after "relevant *generating unit*", insert "or *integrated resource unit*".

[441] Clause 3.14.5B Claims for additional compensation due to market suspension pricing schedule periods

In clause 3.14.5B(d), after "of a *generating unit*", insert "or *integrated resource unit*".

[442] Clause 3.14.5B Claims for additional compensation due to market suspension pricing schedule periods

In clauses 3.14.5B(d)(1), (2), (3) and (4), after each reference to "*generating unit*", insert "or *integrated resource unit*".

[443] Clause 3.14.6 Compensation due to the application of an administered price cap or administered floor price

In clause 3.14.6(a)(1), in the definition of **price limit event**, after "for *Scheduled Generators*", insert "*Scheduled Integrated Resource Providers*".

[444] Clause 3.14.6 Compensation due to the application of an administered price cap or administered floor price

In clause 3.14.6(a)(4), in the definition of **price limit event**, omit "*ancillary generating unit or an ancillary service load*" and substitute "*ancillary service unit*".

[445] Clause 3.14.6 Compensation due to the application of an administered price cap or administered floor price

In clause 3.14.6(b)(1), after "*Non-Scheduled Generator*", insert "(other than a *Non-Scheduled Generator* that is also a *Non-Market Generator*), *Scheduled Integrated Resource Provider*, *Non-Scheduled Integrated Resource Provider* (other than a *Non-Scheduled Integrated Resource Provider* that is also a *Non-Market Integrated Resource Provider*)".

[446] Clause 3.14.6 Compensation due to the application of an administered price cap or administered floor price

In clause 3.14.6(c)(1), after "*Non-Scheduled Generators*", insert ", *Scheduled Integrated Resource Providers*, *Non-Scheduled Integrated Resource Providers*".

[447] Clause 3.15.3 Connection point and virtual transmission node responsibility

In clause 3.15.3(a)(1), omit "*market load*" and substitute "*market connection point*".

[448] Clause 3.15.3 Connection point and virtual transmission node responsibility

In clause 3.15.3(a)(2), omit "or".

[449] Clause 3.15.3 Connection point and virtual transmission node responsibility

In clause 3.15.3(a)(3), omit "." and substitute "; or".

[450] Clause 3.15.3 Connection point and virtual transmission node responsibility

After clause 3.15.3(a)(3), insert:

- (4) the *Market Participant* which has classified the *integrated resource unit connected* at that *connection point* as a *market integrated resource unit*.

[451] Clause 3.15.4 Adjusted gross energy amounts – connection points

Omit clause 3.15.4, excluding the heading and substitute:

- (a) For each *market connection point*, the *adjusted gross energy* amount for a *trading interval* is calculated by *AEMO* by applying the following formula:

$$\text{AGE} = \text{ACE} + \text{ASOE}$$

where:

AGE is the *adjusted gross energy* amount to be determined;

ACE is the *adjusted consumed energy* for the *market connection point* and *trading interval* calculated by *AEMO* by applying the formula in subparagraph (b)(1) or (b)(2) as applicable to the *market connection point*; and

ASOE is the *adjusted sent out energy* for the *market connection point* and *trading interval* calculated by *AEMO* by applying the formula in subparagraph (c)(1) or (c)(2) as applicable to the *market connection point*.

- (b) The *adjusted consumed energy* or ACE for a *market connection point* for a *trading interval* is calculated by *AEMO* as follows:

- (1) for a *market connection point* that is a *transmission network connection point*:

$$\text{ACE} = \text{ME-}$$

where:

ACE is the *adjusted consumed energy* amount to be determined; and

ME- has the meaning in paragraph (d); and

- (2) for a *connection point* that is not a *transmission network connection point*:

$$\text{ACE} = (\text{ME-} \times \text{DLF}) + \text{UFEA}$$

where:

ACE is the *adjusted consumed energy* amount to be determined;

ME- has the meaning given in paragraph (d);

DLF is the *distribution loss factor* applicable to the *market connection point*;

UFEA is the share of unaccounted for *energy* allocated to that *market connection point* under clause 3.15.1.

(c) The *adjusted sent out energy* or ASOE for a *market connection point* for a *trading interval* is calculated by AEMO as follows:

(1) for a *market connection point* that is a *transmission network connection point*:

$$\text{ASOE} = \text{ME}^+$$

where:

ASOE is the *adjusted sent out energy* amount to be determined;
and

ME+ has the meaning given in paragraph (e); and

(2) for a *market connection point* that is not a *transmission network connection point*:

$$\text{ASOE} = (\text{ME}^+ \times \text{DLF})$$

where:

ASOE is the *adjusted sent out energy* amount to be determined;

ME+ has the meaning given in paragraph (e); and

DLF is the *distribution loss factor* applicable to the *market connection point*.

(d) ME- means, for a *connection point* for a *trading interval*, the amount of electrical *energy*, expressed as a negative value in MWh, flowing at the *connection point* in the *trading interval*, as recorded in the *metering data* in respect of that *connection point* and that *trading interval*, where the flow is away from the *transmission network connection point* to which the *connection point* is assigned.

(e) ME+ means, for a *connection point* for a *trading interval*, the amount of electrical *energy*, expressed as a positive value in MWh, flowing at the *connection point* in the *trading interval*, as recorded in the *metering data* in respect of that *connection point* and that *trading interval*, where the flow is towards the *transmission network connection point* to which the *connection point* is assigned.

[452] Clause 3.15.5 Unaccounted for energy adjustment – local areas

In clause 3.15.5(a), omit "(ME x DLF)" and substitute "(ME- x DLF)".

[453] Clause 3.15.5 Unaccounted for energy adjustment – local areas

In clause 3.15.5(a), omit "(and in that aggregation positive and negative *adjusted gross energy* amounts are netted out to give a positive or negative aggregate amount)".

[454] Clause 3.15.5 Unaccounted for energy adjustment – local areas

Omit clause 3.15.5(b) and substitute:

- (b) The unaccounted for *energy* amount determined by *AEMO* under paragraph (a) in a *local area* is to be allocated to all *market connection points* in that *local area* by calculating UFEA for the *market connection point* in accordance with paragraph (c) and including UFEA in the calculation of ACE as provided for in clause 3.15.4(b).

[455] Clause 3.15.5 Unaccounted for energy adjustment – local areas

Omit clause 3.15.5(c) and substitute:

- (c) The allocation of the total unaccounted for *energy* amount determined under paragraph (a) to a *market connection point* in a *local area* in accordance with paragraph (b) is determined by *AEMO* by the following formula:

$$\text{UFEA} = \text{UFE} \times (\text{DME}/\text{ADMELA})$$

where:

UFEA is the allocation of the unaccounted for *energy* amount (in MWh) for the relevant *market connection point* and *trading interval*;

UFE is the unaccounted for *energy* amounts determined under paragraph (a) for the *local area*;

DME is the amount represented by (ME- x DLF) for the relevant *market connection point* and *trading interval* where:

ME- has the meaning given in clause 3.15.4(d); and

DLF is the distribution loss factor applicable at that *market connection point*; and

ADMELA is the aggregate of the amounts represented by DME for that *trading interval* for each *market connection point* in that *local area*.

[456] Clause 3.15.5 Unaccounted for energy adjustment – local areas

Omit clause 3.15.5(d) and substitute:

- (d) *AEMO* must *publish* information to enable a *Market Participant* in a *local area* to verify the unaccounted for *energy* amounts allocated to *market connection points* of the *Market Participant* in that *local area* for each *trading interval* in accordance with a procedure developed and *published* by *AEMO*.

[457] Clause 3.15.6 Spot market transactions

In clause 3.15.6(a), omit "in relation to each *connection point*" and substitute "in relation to each *market connection point*".

[458] Clause 3.15.6 Spot market transactions

In clause 3.15.6(a), in the definition of "AGE", omit "for that *connection point*" and substitute "for that *market connection point*".

[459] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(a0), omit the definitions "customer energy", "generator energy" and "small generator energy".

[460] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(a0), in the definition "Scheduled Participant", omit "clause 3.15.6A(k)(5)" and substitute "subparagraph (k)(5)".

[461] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A, before paragraph (a), insert:

Trading amount calculation for the provision of ancillary services

[462] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(a), omit "*ancillary service generating unit* or *enabled ancillary service load*" and substitute "*ancillary service unit*".

[463] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(a), at the end of the "TA" equation, omit "for each *trading interval*".

[464] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(a), in the explanation of "EA (in MW)", omit "*ancillary service generating unit or ancillary service load*" and substitute "*ancillary service unit*".

[465] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(a), in the explanation of "ASP (in \$ per MW per = hour)", omit "*ancillary service generating unit or ancillary service load*" and substitute "*ancillary service unit*".

[466] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(b1), before paragraph (b1), insert:

General provisions

[467] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(b1), omit "RBF, AGE, AAGE, TGE, ATGE, TSGE, ATSGE, TCE," and substitute "RBF, TCE and".

[468] Clause 3.15.6A Ancillary service transactions

Omit clause 3.15.6A(c2) and substitute:

- (c2) Subject to paragraph (b1), *AEMO* must recover its liabilities under *ancillary services agreements* from *Cost Recovery Market Participants* in each *region* as follows:
 - (1) in relation to *NSCAS*, in accordance with paragraphs (c8) and (c9); and
 - (2) in relation to *SRASs*, in accordance with paragraphs (d) and (e).

[469] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A, before paragraph (c3), insert:

Regional benefit ancillary services procedures and regional benefit factors

[470] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(c3), in the opening paragraph, omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[471] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(c3)(1), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[472] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(c3)(2), omit "TNSCASp" and substitute "TNSCAS_i".

[473] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(c4)(2), after "to restart *generating units*", insert "or *integrated resource units*".

[474] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(c7), after "the regional benefit factors", insert "in accordance with the regional benefit ancillary services procedures and publish those factors".

[475] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A, before paragraph (c8), insert:

Trading amount calculation for NSCAS cost recovery

[476] Clause 3.15.6A Ancillary service transactions

Omit clause 3.15.6A(c8) and substitute:

- (c8) In each *trading interval*, in relation to each *Cost Recovery Market Participant* for each *region*, an *ancillary services* transaction occurs, which results in a *trading amount* for the *Cost Recovery Market Participant* determined in accordance with the following formula:

$$TA_{i,R} = \left(\sum_{\text{for all } S} (TNSCAS_{S,i} \times RBF_{S,i,R}) \right) \times \frac{ACE_{i,R}}{AAE_{i,R}} \times -1$$

where:

- subscript i refers to the relevant *trading interval*;
- subscript R refers to the relevant *region*;
- subscript S refers to the relevant *NSCAS*;
- TA_{i,R} (in \$) = the trading amount payable by the *Cost Recovery Market Participant* in respect of the relevant *region* and *trading interval*;
- TNSCAS_{s,i} (in \$) = the total amount payable by *AEMO* for the provision of the relevant *NSCAS* under an *ancillary services agreement* in respect of the relevant *trading interval*;

- $RBF_{s,i,R}$ (number) = the latest regional benefit factor assigned to the provision of the relevant *NSCAS* under the *ancillary services agreement* in respect of the relevant *region* and *trading interval*, as determined by *AEMO* under paragraph (c7);
- $ACE_{i,R}$ (in MWh) = the sum, for all *connection points* of the *Cost Recovery Market Participant* located in the *region*, of the *adjusted consumed energy* amount for the *connection point* for the *trading interval*; and
- $AACE_{i,R}$ (in MWh) = the sum, for all *connection points* located in the *region*, of the *adjusted consumed energy* amount for the *connection point* for the *trading interval*.

[477] Clause 3.15.6A Ancillary service transactions

Omit clause 3.15.6A(c9) and substitute:

- (c9) In each *trading interval*, in relation to each *Cost Recovery Market Participant*, an *ancillary services* transaction occurs, which results in a *trading amount* for the *Cost Recovery Market Participant* determined in accordance with the following formula:

$$TA_p = TNSCAS_i \times \left(\frac{ACE_i}{AACE_i} \right) \times -1$$

where:

- subscript *i* refers to the relevant *trading interval*;
- TA (in \$) = the *trading amount* payable by the *Cost Recovery Market Participant* in respect of the relevant *trading interval*;
- $TNSCAS_i$ (in \$) = the sum of all amounts payable by *AEMO* for the provision of *NSCAS* under *ancillary services agreements* in respect of the relevant *trading interval* minus the sum of the *trading amounts* calculated for all *Cost Recovery Market Participants* in respect of all of the relevant *trading interval* under paragraph

(c8);

ACE_i (in MWh) = the sum, for all *connection points* of the *Cost Recovery Market Participant*, of the *adjusted consumed energy* amount for the *connection point* for the *trading interval*; and

$AACE_i$ (in MWh) = the sum, for all *connection points*, of the *adjusted consumed energy* amount for the *connection point* for the *trading interval*.

[478] Clause 3.15.6A Ancillary service transactions

Omit clause 3.15.6A(c10) and substitute "[deleted]".

[479] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A, before paragraph (d), insert:

Trading amount calculation for SRAS and SRAS tests cost recovery

[480] Clause 3.15.6A Ancillary service transactions

Omit clause 3.15.6A(d) and substitute:

- (d) In each *trading interval*, in relation to each *Cost Recovery Market Participant* for each *region*, an ancillary services transaction occurs, which results in a *trading amount* for the *Cost Recovery Market Participant* determined in accordance with the following formula:

$$TA = \sum \left(\left(SRP_i \times \frac{RBF_{Ri}}{2} \right) \times \left(\frac{T\text{SOE}_R}{AT\text{SOE}_R} \right) \right) \times -1$$

where:

subscript i refers to the relevant *trading interval*;

subscript R refers to the relevant *region*;

TA (in \$) = the *trading amount* payable by the *Cost Recovery Market Participant* in respect of the relevant *trading interval* and *region*;

SRP_i (in \$) = the amount payable by *AEMO* in respect of the *trading interval* under an

- individual *ancillary services agreement* in respect of the provision of a specific *SRAS* or, for the purposes of clause 4.3.6(q), the compensation payable by *AEMO* under clause 4.3.6(o) for the relevant *billing period*;
- RBF_{R_i} (number) = the latest regional benefit factor assigned to the provision of the relevant *SRAS* under the *ancillary services agreement* in respect of the relevant *region* and *trading interval*, as determined by *AEMO* under paragraph (c7);
- $TSOE_R$ (in MWh) = the sum, for all *connection points* of the *Cost Recovery Market Participant* located in the *region*, of the *adjusted sent out energy* amount for the *connection point* for the *trading interval*; and
- $ATSOE_R$ (in MWh) = the sum, for all *connection points* located in the *region*, of the *adjusted sent out energy* amount for the *connection point* for the *trading interval*.

[481] Clause 3.15.6A Ancillary service transactions

Omit clause 3.15.6A(e) and substitute:

- (e) In each *trading interval*, in relation to each *Cost Recovery Market Participant*, for each *region*, an ancillary services transaction occurs, which results in a *trading amount* for the *Cost Recovery Market Participant* determined in accordance with the following formula:

$$TA = \sum \left(\left(\frac{SRP_i \times RBF_{R_i}}{2} \right) \times \frac{TCE_R}{ATCE_R} \right) \times -1$$

where:

- subscript i refers to the relevant *trading interval*;
- subscript R refers to the relevant *region*;

TA (in \$)	=	the <i>trading amount</i> payable by the <i>Cost Recovery Market Participant</i> in respect of the relevant <i>region</i> and <i>trading interval</i> ;
SRP _i (in \$)	=	the amount payable by <i>AEMO</i> in respect of the <i>trading interval</i> under an individual <i>ancillary services agreement</i> in respect of the provision of a specific <i>SRAS</i> or, for the purposes of clause 4.3.6(q), the compensation payable by <i>AEMO</i> under clause 4.3.6(o) for the relevant <i>billing period</i> ;
RBF _{Ri} (number)	=	the latest regional benefit factor assigned to the provision of the relevant <i>SRAS</i> under an individual <i>ancillary services agreement</i> in respect of the relevant <i>region</i> and <i>trading interval</i> , as determined by <i>AEMO</i> under paragraph (c7); the latest regional benefit factor assigned to the provision of the relevant <i>SRAS</i> under an individual <i>ancillary services agreement</i> in respect of the relevant <i>region</i> and <i>trading interval</i> , as determined by <i>AEMO</i> under paragraph (c7);
TCE _R (in MWh)	=	the sum, for all <i>connection points</i> of the <i>Cost Recovery Market Participant</i> located in the <i>region</i> , of the <i>adjusted consumed energy</i> amount for the <i>connection point</i> for the <i>trading interval</i> ; and
ATCE _R (in MWh)	=	the sum, for all <i>connection points</i> located in the <i>region</i> , of the <i>adjusted consumed energy</i> amount for the <i>connection point</i> for the <i>trading interval</i> .

[482] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A, before paragraph (f), insert:

Trading amount calculation for fast raise service, slow raise service or delayed raise service

[483] Clause 3.15.6A Ancillary service transactions

Omit clause 3.15.6A(f) and substitute:

- (f) The total amount calculated by *AEMO* under paragraph (a) for each of the *fast raise service*, *slow raise service* or *delayed raise service* in respect of each *trading interval* must be allocated to each *region* in accordance with the following procedure and the information provided under clause 3.9.2A(b). *AEMO* must:
- (1) allocate for each *region* and for the relevant *trading interval* the proportion of the total amount calculated by *AEMO* under paragraph (a) for each of the *fast raise service*, *slow raise service* or *delayed raise service* between *global market ancillary services requirements* and *local market ancillary service requirement* pro-rata to the respective marginal prices for each such service;
 - (2) calculate for the relevant *trading interval* the sum of the costs of acquiring the *global market ancillary service requirements* for all *regions* and the sum of the costs of acquiring each *local market ancillary service requirement* for all *regions*, as determined pursuant to subparagraph (f)(1); and
 - (3) allocate for the relevant *trading interval* the sum of the costs of the *global market ancillary service requirement* and each *local market ancillary service requirement* calculated in subparagraph (f)(2) to each *region* as relevant to that requirement pro-rata to the aggregate of the *adjusted sent out energy* for all *Cost Recovery Market Participants* in each *region* during the *trading interval*.
- (f1) In each *trading interval*, in relation to each *Cost Recovery Market Participant*, for each *region*, an ancillary services transaction occurs, which results in a *trading amount* for that *Market Generator* and that *Integrated Resource Provider* determined in accordance with the following formula:

$$TA = RTCRSP \times \left(\frac{TSOE}{RATSOE} \right) \times -1$$

where:

TA (in \$) = the *trading amount* payable by the *Cost Recovery Market Participant* in respect of the relevant *region* and *trading*

- interval*;
- RTCRSP (in \$) = the sum of:
- (1) the *global market ancillary service requirement* cost for that *region*, for the relevant *trading interval*, as determined pursuant to paragraph (f)(3); and
 - (2) all *local market ancillary service requirement* costs for that *region*, for the relevant *trading interval*, as determined pursuant to paragraph (f)(3);
- TSOE (in MWh) = the sum, for all *connection points* of the *Cost Recovery Market Participant* located in the *region*, of the *adjusted sent out energy* for the *trading interval*; and
- RATSOE (in MWh) = the sum, for all *connection points* located in the *region*, of the *adjusted sent out energy* for the *trading interval*.

[484] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A, before paragraph (g), insert:

Trading amount calculation for fast lower service, slow lower service or delayed lower service

[485] Clause 3.15.6A Ancillary service transactions

Omit clause 3.15.6A(g) and substitute:

- (g) The total amount calculated by *AEMO* under paragraph (a) for each of the *fast lower service*, *slow lower service* or *delayed lower service* in respect of each the *trading interval* must be allocated to each *region* in accordance with the following procedure and the information provided under clause 3.9.2A(b). *AEMO* must:
 - (1) allocate for each *region* and for the relevant *trading interval* the proportion of the total amount calculated by *AEMO* under paragraph (a) for each of the *fast lower service*, *slow lower service* or *delayed lower service* between *global market ancillary service requirements* and *local market ancillary service requirement* pro rata to the respective marginal prices of each such service;

- (2) calculate for the relevant *trading interval* the sum of the costs of acquiring the *global market ancillary service requirements* for all *regions* and the sum of the costs of acquiring each *local market ancillary service requirement* for all *regions*, as determined pursuant to subparagraph (g)(1); and
 - (3) allocate for the relevant *trading interval* the sum of the costs of the *global market ancillary service requirement* and each *local market ancillary service requirement* calculated in subparagraph (g)(2) to each *region* as relevant to that requirement pro-rata to the aggregate of the *adjusted consumed energy* amounts for all *Cost Recovery Market Participants* in each *region* during the *trading interval*.
- (g1) In each *trading interval*, in relation to each *Cost Recovery Market Participant*, for each *region*, an ancillary services transaction occurs, which results in a *trading amount* for that *Cost Recovery Market Participant* determined in accordance with the following formula:

$$TA = RTCLSP \times \frac{TCE}{RATCE} \times -1$$

where:

- | | | |
|----------------|---|--|
| TA (in \$) | = | the <i>trading amount</i> payable by the <i>Cost Recovery Market Participant</i> in respect of the relevant <i>region</i> and <i>trading interval</i> ; |
| RTCLRP (in \$) | = | the sum of: <ul style="list-style-type: none"> (1) the <i>global market ancillary service requirement</i> cost for that <i>region</i>, for the relevant <i>trading interval</i>, as determined pursuant to paragraph (g)(3); and (2) all <i>local market ancillary service requirement</i> costs for that <i>region</i>, for the relevant <i>trading interval</i>, as determined pursuant to paragraph (g)(3); |
| TCE (in MWh) | = | the sum, for all <i>connection points</i> of the <i>Cost Recovery Market Participant</i> located in the <i>region</i> , of the <i>adjusted consumed energy</i> amount for the <i>connection point</i> for the <i>trading</i> |

interval; and

RATCE (in MWh) = the sum, for all *connection points* located in the *region*, of the *adjusted consumed energy* amounts for the *trading interval*.

[486] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(i)(1), omit each occasion of "*Market Generator, Market Small Generation Aggregator or Market Customer*" and substitute "*Cost Recovery Market Participant*".

[487] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(i)(1), omit the explanation of "TA (in \$)" and substitute "the *trading amount* payable by the *Cost Recovery Market Participant* in respect of the relevant *region and trading interval*";

[488] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(i)(1), in the explanation of "MPF (a number)", omit "*Market Generator, Market Small Generation Aggregator or Market Customer*" and substitute "*Cost Recovery Market Participant*".

[489] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(i)(1), in the explanation of "AMPF (a number)", omit "*Market Participants*" and substitute "*Cost Recovery Market Participants*".

[490] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(i)(2), omit each occasion of "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[491] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(i)(2), omit the explanation of "TA (in \$)" and substitute "the *trading amount* payable by the *Cost Recovery Market Participant* in respect of the relevant *region and trading interval*";

[492] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(i)(2), in the explanation of "MPF (a number)", omit "*Market Customers*" and substitute "*Cost Recovery Market Participants*".

[493] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(i)(2), in the explanation of "AMPF (a number)", omit "*Market Participants*" and substitute "*Cost Recovery Market Participants*".

[494] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(i)(2), in the explanation of "TCE (in MWh)", omit "*customer energy for the Market Customer*" and substitute "*adjusted consumed energy* amounts for the *Cost Recovery Market Participant*".

[495] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(i)(2), in the explanation of "ATCE (in MWh)", omit "*customer energy figures for all Market Customers*" and substitute "the *adjusted consumed energy* amounts for all *Cost Recovery Market Participants*".

[496] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(i)(2), omit the note.

[497] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(j)(1), omit "*Market Participant*" and substitute "*Cost Recovery Market Participant*".

[498] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(k)(1), omit each occasion of "*Market Participant*" and substitute "*Cost Recovery Market Participant*".

[499] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(k)(2), omit "*Market Customers*" and substitute "*Cost Recovery Market Participants*".

[500] Clause 3.15.6A Ancillary service transactions

Omit clause 3.15.6A(k)(3) and substitute:

- (3) for the purpose of paragraph (j)(2), the contribution factor determined for a group of *regions* for all *Cost Recovery Market Participants* that do not have metering to allow the individual contribution of that *Cost Recovery Market Participants* to the aggregate need for *regulation services* to be assessed, must be divided between *regions* in proportion to the aggregate of the *adjusted consumed energy* amounts for the *regions*;

[501] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(k)(4), omit "*Market Participant's*" and substitute "*Cost Recovery Market Participant's*".

[502] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(k)(5), omit "*scheduled load, ancillary service generating unit or ancillary service load*" and substitute "*scheduled integrated resource unit, scheduled load or ancillary service unit*".

[503] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(k)(6), omit "*total customer energy*" and substitute "*total demand*".

[504] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A(nb), omit "*Market Participants*" and substitute "*Cost Recovery Market Participants*".

[505] Clause 3.15.6AA Substitution of regional customer energy values for insufficient net demand recovery periods

Omit clause 3.15.6AA and substitute "[Deleted]".

[506] Clause 3.15.7 Payment to Directed Participants

In clause 3.15.7(c), in the explanation of "AMP", after "*Semi-Scheduled Generators*", insert "*Scheduled Integrated Resource Providers*".

[507] Clause 3.15.7 Payment to Directed Participants

In clause 3.15.7(c), in the explanation of "DQ", in paragraph (A), omit each occasion of "*adjusted gross energy*" and substitute "*adjusted consumed energy* amounts or total *adjusted sent out energy* amounts (as applicable)".

[508] Clause 3.15.7 Payment to Directed Participants

In clause 3.15.7(d), omit each occasion of "*dispatch offer*".

[509] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services

In clause 3.15.7A(b)(2), omit "*scheduled plant or market generating unit*" and substitute "*directed resource*".

[510] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services

In clause 3.15.7A(g)(2), omit "a *scheduled generating unit, semi-scheduled generating unit, scheduled load, ancillary service generating unit, market generating unit, ancillary services load or scheduled network services*, as the case may be," and substitute "its *directed resource*".

[511] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services

In clause 3.15.7A(g)(3), omit "*scheduled generating unit, semi-scheduled generating unit, scheduled load, ancillary service generating unit, market generating unit, ancillary services load or scheduled network services*, as the case may be," and substitute "*directed resource*".

[512] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services

In clause 3.15.7A(3)(i), omit "*generating unit, or scheduled network services*" and substitute "*directed resource*".

[513] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services

In clause 3.15.7A(3)(ii), omit "*generating unit, load or scheduled network services*" and substitute "*directed resource*".

[514] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services

In clause 3.15.7A(3)(iii), omit "*generating unit, load or scheduled network services*" and substitute "*directed resource*".

[515] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services

In clause 3.15.7A(3)(iv), omit each occasion of "*generating unit, load or scheduled network services*", insert "*directed resource*".

[516] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services

In clause 3.15.7A(3)(v), omit each occasion of "*generating unit, load or scheduled network services*" and substitute "*directed resource*".

[517] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services

In clause 3.15.7A(3)(vi), omit each occasion of "*generating unit, load or scheduled network services*" and substitute "*directed resource*".

[518] Clause 3.15.7B Claim for additional compensation by Directed Participants

In clause 3.15.7B(a)(1), omit "a *scheduled generating unit, semi-scheduled generating unit or scheduled network services*, as the case may be," and substitute "its *directed resource*".

[519] Clause 3.15.7B Claim for additional compensation by Directed Participants

In clause 3.15.7B(a3), omit "that *scheduled generating unit, semi-scheduled generating unit or scheduled network services* (as the case may be)" and substitute "*directed resource*".

[520] Clause 3.15.7B Claim for additional compensation by Directed Participants

In clause 3.15.7B(a3)(1), omit "*generating unit or scheduled network services*" and substitute "*directed resource*".

[521] Clause 3.15.7B Claim for additional compensation by Directed Participants

In clause 3.15.7B(a3)(2), omit "*generating unit or scheduled network services*" and substitute "*directed resource*".

[522] Clause 3.15.7B Claim for additional compensation by Directed Participants

In clause 3.15.7B(a3)(3), omit "*generating unit or scheduled network services*" and substitute "*directed resource*".

[523] Clause 3.15.7B Claim for additional compensation by Directed Participants

Omit clause 3.15.7B(a3)(4) and substitute:

- (4) acceleration costs of maintenance work in connection with the relevant *directed resource*, where such acceleration costs are incurred to enable the *Directed Participant* to comply with the *direction*;

[524] Clause 3.15.7B Claim for additional compensation by Directed Participants

Omit clause 3.15.7B(a3)(5) and substitute:

- (5) delay costs for maintenance work in connection with the relevant *directed resource*, where such delay costs are incurred to enable the *Directed Participant* to comply with the *direction*;

[525] Clause 3.15.7B Claim for additional compensation by Directed Participants

Omit clause 3.15.7B(a3)(6) and substitute:

- (6) other costs incurred in connection with the relevant *directed resource*, where such costs are incurred to enable the *Directed Participant* to comply with the *direction*; and

[526] Clause 3.15.7B Claim for additional compensation by Directed Participants

In clause 3.15.7B(a3)(7), omit "*generating unit or scheduled network services*" and substitute "*directed resource*".

[527] Clause 3.15.8 Funding of Compensation for directions

In clause 3.15.8(a0), omit the definitions of "**customer energy**", "**generator energy**" and "**small generator energy**".

[528] Clause 3.15.8 Funding of Compensation for directions

Omit clause 3.15.8(b), excluding the first **Note** but including the second **Note**, and substitute:

- (b) *AEMO* must, in accordance with the *intervention settlement timetable*, calculate a figure for each *Cost Recovery Market Participant* in each *region* applying the following formula:

$$CRP = \frac{E}{\sum E} \times \frac{RB}{\sum RB} \times CRA$$

where:

CRP is the amount payable or receivable by a *Cost Recovery Market Participant* pursuant to this paragraph (b);

E is the sum of the *Cost Recovery Market Participant's adjusted consumed energy* amounts at each *connection point* for which the *Cost Recovery Market Participant* is *financially responsible* in a *region*, determined in accordance with clauses 3.15.4 and 3.15.5 in respect of the relevant *intervention pricing 30-minute period* excluding *adjusted consumed energy* of *scheduled loads* or *integrated resource units* in respect of which the *Cost Recovery Market Participant* submitted a *dispatch bid* for the relevant *intervention pricing 30-minute period* in that *region*; and

RB is the regional benefit determined by *AEMO* pursuant to clause 3.15.8(b1) at the time of issuing the *direction*.

CRA is the *compensation recovery amount*.

[529] Clause 3.15.8 Funding of Compensation for directions

In clause 3.15.8(c), omit each occasion of "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[530] Clause 3.15.8 Funding of Compensation for directions

In clause 3.15.8(d), omit each occasion of "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[531] Clause 3.15.8 Funding of Compensation for directions

In clause 3.15.8(f)(2), omit "TNSCASP, TSRP," and substitute "TNSCAS,".

[532] Clause 3.15.8 Funding of Compensation for directions

In clause 3.15.8(f)(3), omit "TGE, TSGE, AGE, ATCE, ATGE, ATSGE" and substitute "TSOE, AGE, ATCE, ATSOE".

[533] Clause 3.15.8 Funding of Compensation for directions

In clause 3.15.8(f), omit the **Note**.

[534] Clause 3.15.8 Funding of Compensation for directions

Omit clause 3.15.8(g), including the **Note**, and substitute:

- (g) Any compensation payable by *AEMO* under clause 3.12.2 and 3.15.7 not recovered under clauses 3.15.8(b) and 3.15.8(e) must be recovered from *Cost Recovery Market Participants*. *AEMO* must, in accordance with the *intervention settlement timetable*, calculate a figure for each

Cost Recovery Market Participants in each *region* applying the following formula:

$$CRP = \frac{TSOE - TCE}{RATSOE - RATCE} \times \frac{RB}{\sum RB} \times CRA \times -1$$

where:

- | | | |
|-----------------|---|--|
| CRP (in \$) | = | the amount payable or receivable by a <i>Cost Recovery Market Participant</i> under this paragraph (g); |
| TSOE (in MWh) | = | the sum, for all <i>connection points</i> of the <i>Cost Recovery Market Participant</i> located in the <i>region</i> , of the <i>adjusted sent out energy</i> in all relevant <i>intervention price trading intervals</i> ; |
| TCE (in MWh) | = | the sum, for all <i>connection points</i> of the <i>Cost Recovery Market Participant</i> located in the <i>region</i> , of the <i>adjusted consumed energy</i> amounts in all relevant <i>intervention price trading intervals</i> ; |
| RATSOE (in MWh) | = | the sum, for all <i>connection points</i> located in the <i>region</i> of all <i>Cost Recovery Market Participant</i> , of the <i>adjusted consumed energy</i> amounts in all relevant <i>intervention price trading intervals</i> ; |
| RATCE (in MWh) | = | the sum, for all <i>connection points</i> located in the <i>region</i> of all <i>Cost Recovery Market Participant</i> , of the <i>adjusted consumed energy</i> amounts in all relevant <i>intervention price trading intervals</i> ; |
| RB (number) | = | the regional benefit determined by <i>AEMO</i> under clause 3.15.8(b1) at the time of issuing the <i>direction</i> ; and |
| CRA | = | the <i>compensation recovery amount</i> . |

[535] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods

Omit clause 3.15.8A(b), including the **Note**, and substitute:

- (b) *AEMO* must, in accordance with the *intervention settlement timetable*, calculate a figure for each *Cost Recovery Market Participant* in each *region* applying the following formula:

$$CRP = \frac{E}{\sum E} \times \frac{RB}{\sum RB} \times CRA$$

where:

CRP is the amount payable by a *Cost Recovery Market Participant* pursuant to this clause 3.15.8A(b).

E is the sum of the *Cost Recovery Market Participant's adjusted consumed energy* amounts at each *connection point* for which the *Cost Recovery Market Participant Customer* is *financially responsible* in a *region*, determined in accordance with clauses 3.15.4 and 3.15.5, in respect of the *trading intervals* that occur during a *market suspension pricing schedule period*.

RB is the regional benefit determined by *AEMO* pursuant to paragraph (e).

CRA is the *market suspension compensation recovery amount*.

[536] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods

In clause 3.15.8A(c), omit each occasion of "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[537] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods

In clause 3.15.8A(c), omit "clause 3.15.8A(b)" and substitute "paragraph (b)".

[538] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods

In clause 3.15.8A(d), omit each occasion of "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[539] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods

In clause 3.15.8A(g), omit the **Note**.

[540] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods

In clause 3.15.8A(g)(2), omit "TNSCASP, TSRP," and substitute "TNSCAS,".

[541] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods

In clause 3.15.8A(g)(3), omit "TGE, TSGE, AGE, ATCE, ATGE, ATSGE" and substitute "AGE, ATCE, ATGE, TSOE, ATSOE".

[542] Clause 3.15.9 Reserve settlements

In clause 3.15.9(a), omit "*Market Customers*" and substitute "*Cost Recovery Market Participants*".

[543] Clause 3.15.9 Reserve settlements

Omit clause 3.15.9(b)(2)(ii) and substitute:

- (ii) as a result of a *scheduled generating unit, scheduled integrated resource unit, scheduled network service, wholesale demand response unit or scheduled load* under a *scheduled reserve contract* being dispatched or *generating units, integrated resource units or other plant* under an *unscheduled reserve contract* being activated; or

[544] Clause 3.15.9 Reserve settlements

In clause 3.15.9(d), in the last paragraph, omit "*Market Customers*" and substitute "*Cost Recovery Market Participants*".

[545] Clause 3.15.9 Reserve settlements

In clause 3.15.9(e), below subparagraph (3), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[546] Clause 3.15.9 Reserve settlements

In clause 3.15.9(e), below subparagraph (3), omit the existing equation and substitute:

$$CRP = \left[\frac{(E_{UC} \times UC)}{\sum E_{UC}} \right] = \left[\frac{(E_{OC} \times OC)}{\sum E_{OC}} \right]$$

[547] Clause 3.15.9 Reserve settlements

In clause 3.15.9(e)(3), omit the paragraph of "MCP" in its entirety and substitute:

CRP is the amount payable by a *Cost Recovery Market Participant* for a *region* in respect of a *billing period*;

[548] Clause 3.15.9 Reserve settlements

In clause 3.15.9(e), in the explanation of " E_{UC} ", omit "*Market Customer's adjusted gross energy*" and substitute "*Cost Recovery Market Participant's adjusted consumed energy*".

[549] Clause 3.15.9 Reserve settlements

In clause 3.15.9(e), in the explanation of " E_{UC} ", omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[550] Clause 3.15.9 Reserve settlements

In clause 3.15.9(e), in the explanation of " E_{OC} ", omit "*Market Customer's adjusted gross energy*" and substitute "*Cost Recovery Market Participant's adjusted consumed energy*".

[551] Clause 3.15.9 Reserve settlements

In clause 3.15.9(e), in the explanation of " E_{OC} ", omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[552] Clause 3.15.10 Administered price cap or administered floor price compensation payments

In clause 3.15.10(a), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[553] Clause 3.15.10 Administered price cap or administered floor price compensation payments

In clause 3.15.10(b), omit "*Market Customers*" and substitute "*Cost Recovery Market Participants*".

[554] Clause 3.15.10 Administered price cap or administered floor price compensation payments

In clause 3.15.10(b), in the explanation of " E_i ", omit "*Market Customer's adjusted gross energy*" and substitute "*Cost Recovery Market Participant's adjusted consumed energy*".

[555] Clause 3.15.10 Administered price cap or administered floor price compensation payments

In clause 3.15.10(b), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[556] Clause 3.15.10 Administered price cap or administered floor price compensation payments

In clause 3.15.10(c), omit "*Market Participants*" and substitute "*Cost Recovery Market Participants*".

[557] Clause 3.15.10C Intervention and Market Suspension Pricing Schedule Period Settlements

In clause 3.15.10C(a)(3), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[558] Clause 3.15.10C Intervention and Market Suspension Pricing Schedule Period Settlements

In clause 3.15.10C(a)(4), omit "and *Market Small Generation Aggregator*" and substitute ", *Integrated Resource Provider* and *Small Resource Aggregator*".

[559] Clause 3.15.10C Intervention and Market Suspension Pricing Schedule Period Settlements

In clause 3.15.10C(a)(4), omit "TNSCASP, TSRP," and substitute "TNSCAS_i".

[560] Clause 3.15.10C Intervention and Market Suspension Pricing Schedule Period Settlements

In clause 3.15.10C(a)(4A), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[561] Clause 3.15.10C Intervention and Market Suspension Pricing Schedule Period Settlements

In clause 3.15.10C(a1)(2), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

[562] Clause 3.15.10C Intervention and Market Suspension Pricing Schedule Period Settlements

In clause 3.15.10C(a1)(2), after "pursuant to", insert "clause 3.15.8A(b) and".

[563] Clause 3.15.10C Intervention and Market Suspension Pricing Schedule Period Settlements

In clause 3.15.10C(b)(4), omit all references to "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[564] Clause 3.15.10C Intervention and Market Suspension
Pricing Schedule Period Settlements**

In clause 3.15.10C(b)(5), omit all references to "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[565] Clause 3.15.10C Intervention and Market Suspension
Pricing Schedule Period Settlements**

In clause 3.15.10C(b)(7), in the opening paragraph, omit "*Market Customer, Market Generator and Market Small Generation Aggregator*" and substitute "*Cost Recovery Market Participant*".

**[566] Clause 3.15.10C Intervention and Market Suspension
Pricing Schedule Period Settlements**

In clause 3.15.10C(b)(7)(i), omit "*Market Customer, Market Generator and Market Small Generation Aggregator, as the case may be,*" and substitute "*Cost Recovery Market Participant*".

**[567] Clause 3.15.10C Intervention and Market Suspension
Pricing Schedule Period Settlements**

In clause 3.15.10C(b)(7)(i), omit "TNSCASP, TSRP," and substitute "TNSCAS_i".

**[568] Clause 3.15.10C Intervention and Market Suspension
Pricing Schedule Period Settlements**

In clause 3.15.10C(b)(7)(ii), omit "*Market Customer, Market Generator or Market Small Generation Aggregator*" and substitute "*Cost Recovery Market Participant*".

**[569] Clause 3.15.10C Intervention and Market Suspension
Pricing Schedule Period Settlements**

In clause 3.15.10C(c)(3)(ii), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[570] Clause 3.15.10C Intervention and Market Suspension
Pricing Schedule Period Settlements**

In clause 3.15.10C(c)(3)(ii)(A), omit "MCP" and substitute "CRP".

**[571] Clause 3.15.10C Intervention and Market Suspension
Pricing Schedule Period Settlements**

In clause 3.15.10C(c)(3)(ii)(A), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[572] Clause 3.15.10C Intervention and Market Suspension
Pricing Schedule Period Settlements**

In clause 3.15.10C(c)(3)(iii), omit "*Market Customer, Market Generator and Market Small Generation Aggregator*" and substitute "*Cost Recovery Market Participant*".

**[573] Clause 3.15.10C Intervention and Market Suspension
Pricing Schedule Period Settlements**

In clause 3.15.10C(c)(3)(iii)(B), omit "TNSCASP, TSRP," and substitute "TNSCAS₁".

[574] Clause 3.15.21 Default procedure

Omit clause 3.15.21(c2)(2)(ii) and substitute:

- (ii) the potential impact of the suspension of the registration of a *Market Participant* on the *reliability* of the *power system*; and

[575] Clause 3.15.21 Default procedure

Omit clause 3.15.21(c2)(2)(iii) and substitute "[deleted]".

[576] Clause 3.15.21 Default procedure

In clause 3.15.21(i)(1), omit "or *dispatch offer*".

[577] Clause 3.15.21 Default procedure

In clause 3.15.21(i), in the last paragraph, omit "*market loads*" and substitute "*loads*".

**[578] Clause 3.16.1 Establishment of Participant
compensation fund**

In clause 3.16.1(a), after "*Semi-Scheduled Generators*", insert ", *Scheduled Integrated Resource Providers*".

**[579] Clause 3.16.1 Establishment of Participant
compensation fund**

Omit clause 3.16.1(g) and substitute:

- (g) A person is not entitled to a refund of any contributions made to the *Participant compensation fund* upon ceasing to be a *Scheduled Generator, Semi-Scheduled Generator, Scheduled Integrated Resource Provider or Scheduled Network Service Provider*.

[580] Clause 3.16.1 Establishment of Participant compensation fund

Omit clause 3.16.1(h) and substitute "[Deleted]".

[581] Clause 3.16.2 Dispute resolution panel to determine compensation

Omit clause 3.16.2(d) and substitute:

- (d) *A Scheduled Generator, Semi-Scheduled Generator or Scheduled Integrated Resource Provider* who receives an instruction in respect of a *scheduled generating unit, semi-scheduled generating unit or scheduled integrated resource unit* (as the case may be) to operate at a *loading level* different to the *loading level* at which it would have been instructed to operate had the *scheduling error* not occurred, will be entitled to receive in compensation an amount determined by the *dispute resolution panel*.

[582] Clause 3.16.2 Dispute resolution panel to determine compensation

In clause 3.16.2(f), omit "or *Semi-Scheduled Generator*" and substitute ", *Semi-Scheduled Generator or Scheduled Integrated Resource Provider*".

[583] Clause 3.16.2 Dispute resolution panel to determine compensation

In clause 3.16.2(f), after "in respect of a *generating unit*", insert "or *integrated resource unit*".

[584] Clause 3.16.2 Dispute resolution panel to determine compensation

In clause 3.16.2(f), omit "*dispatch offer price*" and substitute "*dispatch bid price*".

[585] Clause 3.16.2 Dispute resolution panel to determine compensation

In clause 3.16.2(g), omit "*network dispatch offer price*" and substitute "*dispatch bid price*".

[586] Clause 3.16.2 Dispute resolution panel to determine compensation

In clause 3.16.2(h)(1), omit "or *semi-scheduled generating unit*" and substitute ", *semi-scheduled generating unit or scheduled integrated resource unit*".

[587] Clause 3.18.2 Auctions and eligible persons

In clause 3.18.2(b)(1), after " a *Generator*", insert ", an *Integrated Resource Provider*".

[588] Clause 3.18.5 Settlement residue committee

In clause 3.18.5(c)(2), after "*Generators*", insert "or *Integrated Resource Providers*".

[589] Clause 3.20.3 Reserve contracts

In clause 3.20.3(a)(1), after "*scheduled generating units*", insert "*scheduled integrated resource units*".

[590] Clause 3.20.3 Reserve contracts

In clause 3.20.3(g), after "scheduled generating units", insert "*scheduled integrated resource units*".

[591] Clause 3.20.3 Reserve contracts

In clause 3.20.3(g), omit "*dispatch offers* or".

[592] Clause 3.20.3 Reserve contracts

In clause 3.20.3(h), omit "*dispatch offers* or".

[593] Clause 3.20.3 Reserve contracts

In clause 3.20.3(l), omit "a *unscheduled reserve contract*" and substitute "an *unscheduled reserve contract*".

**[594] Clause 3.20.4 Dispatch pricing methodology for
unscheduled reserve contracts**

In clause 3.20.4(a), omit "or *loads*" and substitute ", *integrated resource units* or other *connected plant*".

[595] Clause 3.20.6 Reporting on RERT by AEMO

In clause 3.20.6(f)(2), after "each *Market Customer*", insert "or *Integrated Resource Provider*".

[596] Clause 3.20.6 Reporting on RERT by AEMO

Omit clause 3.20.6(g)(2) and substitute:

- (2) each occasion during the *financial year* when a *scheduled resource* under a *scheduled reserve contract* was *dispatched* or *unscheduled reserves* available under an *unscheduled reserve contract* were *activated*; and

[597] Clause 3.20.7 AEMO's exercise of the RERT

Omit clause 3.20.7(b) and substitute:

- (b) *AEMO* must follow the relevant procedures in this rule prior to *dispatching a scheduled resource* the subject of a *scheduled reserve contract* or *activating unscheduled reserves* it has available under an *unscheduled reserve contract* unless it is not reasonably practicable to do so.

[598] Clause 3.20.7 AEMO's exercise of the RERT

Omit clause 3.20.7(c) and substitute:

- (c) Subject to paragraph (b), *AEMO* must only *dispatch a scheduled resource* the subject of a *scheduled reserve contract* or *activate unscheduled reserves* it has available under an *unscheduled reserve contract* in accordance with the procedures developed pursuant to paragraph (e).

[599] Clause 3.20.7 AEMO's exercise of the RERT

Omit clause 3.20.7(d) and substitute:

- (d) In order to effect the *dispatch* of a *scheduled resource* the subject of a *scheduled reserve contract* or the *activation of unscheduled reserves* it has available under an *unscheduled reserve contract*, *AEMO* may:
 - (1) submit, update or vary *dispatch bids* in relation to all or part of such a *scheduled resource* which is the subject of a *scheduled reserve contract*; or
 - (2) change other inputs to the *dispatch process* to give effect to the *dispatch* of *scheduled resources* the subject of a *scheduled reserve contract* or the *activation of unscheduled reserves* it has available under an *unscheduled reserve contract*.

[600] Clause 3.20.7 AEMO's exercise of the RERT

Omit clause 3.20.7(e)(1)(i) and substitute:

- (i) paragraph (i) in relation to *unscheduled reserves* it has available under *unscheduled reserve contracts*; and

[601] Clause 3.20.7 AEMO's exercise of the RERT

In clause 3.20.7(e)(1)(ii), omit ""clause 3.20.3(h) and substitute "paragraph (h)".

[602] Clause 3.20.7 AEMO's exercise of the RERT

In clause 3.20.7(e)(1A), omit "*generating units or loads*" and substitute "*unscheduled reserves*".

[603] Schedule 3.1 Bid and Offer Validation Data

Omit the heading of Schedule 3.1 and substitute:

Schedule 3.1 Bid Validation Data

[604] Schedule 3.1 Bid Validation Data

In paragraph (a) of Schedule 3.1, omit "*bid and offer validation data*" and substitute "*bid validation data*".

[605] Schedule 3.1 Bid Validation Data

In paragraph (a) of Schedule 3.1, omit "and *dispatch offers*".

[606] Schedule 3.1 Bid Validation Data

In paragraph (b) of Schedule 3.1, omit "*Scheduled Generators, Semi-Scheduled Generators* and".

[607] Schedule 3.1 Bid Validation Data

In paragraph (b) of Schedule 3.1, omit "*bid and offer validation data*" and substitute "*bid validation data*".

[608] Schedule 3.1 Bid Validation Data

In paragraph (b) of Schedule 3.1, omit "and *scheduled generating units*" and substitute ", *scheduled generating units* and *scheduled integrated resource units*".

[609] Schedule 3.1 Bid Validation Data

In paragraph (c) of Schedule 3.1, omit "*Scheduled Generators, Semi-Scheduled Generators* and".

[610] Schedule 3.1 Bid Validation Data

In paragraph (c) of Schedule 3.1, omit "*bid and offer validation data*" and substitute "*bid validation data*".

[611] Schedule 3.1 Bid Validation Data

In paragraph (d) of Schedule 3.1, omit "*Scheduled Generator, Semi-Scheduled Generator* or".

[612] Schedule 3.1 Bid Validation Data

In paragraph (d) of Schedule 3.1, omit "*bid and offer validation data*" and substitute "*bid validation data*".

[613] Schedule 3.1 Bid Validation Data

In paragraph (e) of Schedule 3.1, omit "*Scheduled Generator, Semi-Scheduled Generator* and"

[614] Schedule 3.1 Bid Validation Data

In paragraph (e) of Schedule 3.1, omit "*Scheduled Generator, Semi-Scheduled Generator* or"

[615] Schedule 3.1 Bid Validation Data

In Schedule 3.1, at the end of "**Scheduled Load Data:**" table, insert:

Scheduled Integrated Resource Unit Data:

Data	Units of Measurement
<i>Facility information</i>	
<i>Facility name</i>	
<i>Scheduled integrated resource unit information</i> Note: Repeat the following items for each <i>scheduled integrated resource unit</i> where there are two or more <i>scheduled integrated resource units</i> in the <i>power station</i>	
<i>Scheduled integrated resource unit name</i> Note: This may be the same name as the <i>power station</i> name when the <i>power station</i> has only one single or aggregated <i>scheduled integrated resource unit</i>	
<i>Dispatchable unit identifier</i>	
Maximum <i>generation</i> of the <i>scheduled integrated resource unit</i> , to which the <i>scheduled integrated resource unit</i> may be <i>dispatched</i> .	MW (produced)
Maximum <i>load</i> of the <i>scheduled integrated resource unit</i> , to which the <i>scheduled integrated resource unit</i> may be <i>dispatched</i> .	MW (consumed)
Maximum <i>ramp rate</i> of the <i>scheduled integrated resource unit</i> .	MW/minute

[616] Schedule 3.1 Bid Validation Data

In Schedule 3.1, omit the table "**Ancillary Service Generating Unit and Ancillary Service Load Data:**" in its entirety and substitute:

Ancillary Service Unit Data:

Data	Units of Measurement
<i>Power station/load</i> installation information	
<i>power station/load</i> installation name	
<i>Ancillary service unit</i> information Note: Repeat the following items for each <i>dispatchable unit identifier</i> where there are two or more <i>ancillary service units</i> in a <i>power station</i> or <i>connected</i> at the same <i>connection point</i>	
Unit/ <i>load</i> name	
<i>Dispatchable unit identifier</i>	
<i>market ancillary service</i> *	
maximum <i>market ancillary service</i> capacity*	MW
<i>minimum enablement level</i> *	MW
<i>maximum enablement level</i> *	MW
<i>maximum lower angle</i> *	Degrees
<i>minimum lower angle</i> *	Degrees

[617] Clause 4.1.1 Purpose

Omit clause 4.1.1(a)(3)(iv) and substitute:

- (iv) to establish processes for the actual *dispatch* of *scheduled resources* and *ancillary services* by *AEMO* and for *AEMO* to *enable inertia network services* or *system strength services*.

[618] Clause 4.2.3 Credible and non-credible contingency events and protected events

In clause 4.2.3(a), after "*more generating units*" insert "*and/or integrated resource units*".

[619] Clause 4.2.3 Credible and non-credible contingency events and protected events

In clause 4.2.3(b)(1), after "*operating generating unit*" insert "*or one operating integrated resource unit*".

[620] Clause 4.2.3 Credible and non-credible contingency events and protected events

In clause 4.2.3(e)(2)(i), after "multiple *generating unit*" insert "or *integrated resource unit*".

[621] Clause 4.2.6 General principles for maintaining power system security

In clause 4.2.6(e), after "restarting of *generating units*" insert "or *integrated resource units*".

[622] Clause 4.3.1 Responsibility of AEMO for power system security

In clause 4.3.1(i), omit "*scheduled generating units, semi-scheduled generating units, wholesale demand response units, scheduled loads, scheduled network services*" and substitute "*scheduled resources*".

[623] Clause 4.3.1 Responsibility of AEMO for power system security

In clause 4.3.1(j), omit "*generating units, wholesale demand response units, loads, market network services*" and substitute "*scheduled resources*".

[624] Clause 4.3.2 System security

In clause 4.3.2(ha)(3), after "affected *Generators*" insert "and *Integrated Resource Providers*".

[625] Clause 4.3.2 System security

In clause 4.3.2(n), after "which *generating units*" insert "or *integrated resource units*".

[626] Clause 4.3.6 System restart test obligations

In clause 4.3.6(b), after "any other *Generator*" insert "and *Integrated Resource Provider*".

[627] Clause 4.4.2 Operational frequency control requirements

In clause 4.4.2(a), omit "*scheduled generating units, semi-scheduled generating units, wholesale demand response units, scheduled loads, scheduled network services*" and substitute "*scheduled resources*".

[628] Clause 4.4.2 Operational frequency control requirements

Omit clause 4.4.2(b) (excluding the note) and substitute:

- (b) each *Generator* and *Integrated Resource Provider* must ensure that all of its *generating units* and *integrated resource units* meet the technical requirements for *frequency control* in clause S5.2.5.11;

[629] Clause 4.4.2 Operational frequency control requirements

Omit clause 4.4.2(c1) and substitute:

- (c1) subject to clause 4.4.2A(c), each *Scheduled Generator*, *Semi-Scheduled Generator* and *Scheduled Integrated Resource Provider* that has received a *dispatch instruction* to generate a volume greater than zero MW must operate its *generating system* or *integrated resource system* (as relevant) in accordance with the *Primary Frequency Response Requirements* as applicable to that *generating system* or *integrated resource system*;

[630] Clause 4.4.2A Primary Frequency Response Requirements

Omit clause 4.4.2A(b)(1) and substitute:

- (1) a requirement that *Scheduled Generators*, *Semi-Scheduled Generators* and *Scheduled Integrated Resource Providers* set their *generating systems* and *integrated resource systems* to operate in *frequency response mode* within one or more performance parameters (which may be specific to different types of *plant*), which:

[631] Clause 4.4.2A Primary Frequency Response Requirements

Omit clause 4.4.2A(b)(1)(i) and substitute:

- (i) must include maximum allowable deadbands which must not be narrower than the *primary frequency control band* outside of which *Scheduled Generators*, *Semi-Scheduled Generators* and *Scheduled Integrated Resource Providers* must provide *primary frequency response*; and

[632] Clause 4.4.2A Primary Frequency Response Requirements

Omit clause 4.4.2A(b)(2) and substitute:

- (2) subject to rule 4.4.2B, the conditions or criteria on which a *Scheduled Generator, Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* may request, and *AEMO* may approve, a variation to, or exemption from, any *primary frequency response parameters* applicable to its *scheduled generating system, semi-scheduled generating system* or *scheduled integrated resource system*;

[633] Clause 4.4.2A Primary Frequency Response Requirements

Omit clause 4.4.2A(b)(3) and substitute:

- (3) the process and timing for an application for a variation to, or exemption from, any *primary frequency response parameters* applicable to a *scheduled generating system, semi-scheduled generating system* or *scheduled integrated resource system*, and the process for approval by *AEMO* of such variation or exemption; and

[634] Clause 4.4.2A Primary Frequency Response Requirements

Omit clause 4.4.2A(b)(4) and substitute:

- (4) details of the information to be provided by *Scheduled Generators, Semi-Scheduled Generators* and *Scheduled Integrated Resource Providers* to verify compliance with the *Primary Frequency Response Requirements* and any compliance audits or tests to be conducted by *AEMO*.

[635] Clause 4.4.2A Primary Frequency Response Requirements

In clause 4.4.2A(c), omit "*Scheduled Generator* or *Semi-Scheduled Generator*" and substitute "*Scheduled Generator, or Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider*".

[636] Clause 4.4.2A Primary Frequency Response Requirements

In clause 4.4.2A(c)(1) after "in its *generating system*" insert "or *integrated resource system*".

[637] Clause 4.4.2A Primary Frequency Response Requirements

Omit clause 4.4.2A(c)(2) and substitute:

- (2) install or modify monitoring equipment to monitor and record the *primary frequency response* of its *generating system* or *integrated resource system* to changes in the *frequency* of the *power system* for the purpose of verifying the *Scheduled Generator's*, *Semi-Scheduled Generator's* or *Scheduled Integrated Resource Provider's* compliance with clause 4.4.2(c1).

[638] Clause 4.4.2A Primary Frequency Response Requirements

Omit clause 4.4.2A(d) and substitute:

- (d) *AEMO* must publish on its website and maintain, a register of *Scheduled Generators*, *Semi-Scheduled Generators* and *Scheduled Integrated Resource Providers* who have been granted a variation or exemption from any *primary frequency response parameters* in the *Primary Frequency Response Requirements*.

[639] Clause 4.4.2B Approval of variations or exemptions

In clause 4.4.2B(a), after "*Semi-Scheduled Generator's generating system*" insert "or a *Scheduled Integrated Resource Provider's integrated resource system*".

[640] Clause 4.4.2B Approval of variations or exemptions

In clause 4.4.2B(a)(1), after "*the generating system*" insert "or *integrated resource system*".

[641] Clause 4.4.2B Approval of variations or exemptions

In clause 4.4.2B(a)(2), after "*the generating system*" insert "or *integrated resource system*".

[642] Clause 4.4.2B Approval of variations or exemptions

In clause 4.4.2B(a)(3), after "*the generating system*" insert "or *integrated resource system*".

[643] Clause 4.4.2B Approval of variations or exemptions

Omit clause 4.4.2B(a)(4) and substitute:

- (4) whether the *Scheduled Generator*, *Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* has been able to establish to *AEMO's* reasonable satisfaction that the implementation of the *primary frequency response parameters* applicable to that *Scheduled Generator's* or *Semi-Scheduled Generator's generating system* or that *Scheduled Integrated*

Resource Provider's integrated resource system will be unreasonably onerous having regard to (among other things):

- (i) the likely costs of modifying the *generating system* or *integrated resource system* to be able to operate in *frequency response mode*; and
- (ii) the likely operation and maintenance costs of operating the *generating system* or *integrated resource system* in *frequency response mode*,

relative to the revenue earned from the provision of *energy* and *market ancillary services* by the relevant *generating system* or *integrated resource system* in relation to its operation in the *NEM* during the 12 months prior to the date of the application for exemption or variation, as applicable.

[644] Clause 4.4.2B Approval of variations or exemptions

Omit clause 4.4.2B(b) and substitute:

- (b) A dispute between *AEMO* and a *Scheduled Generator*, *Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* relating to a variation or exemption from any of the *primary frequency response parameters* applicable to a *Scheduled Generator's* or *Semi-Scheduled Generator's generating system* or a *Scheduled Integrated Resource Provider's integrated resource system* may be determined under rule 8.2.

[645] Clause 4.4.2B Approval of variations or exemptions

Omit clause 4.4.2B(c) and substitute:

- (c) Information provided to *AEMO* by a *Scheduled Generator*, *Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* as part of an application for variation or exemption under clause 4.4.2B(a)(4) is *confidential information*.

[646] Clause 4.4.3 Generator protection requirements

In clause 4.4.3, after "*Generators*" insert "and *Integrated Resource Providers*".

[647] Clause 4.4.4 Instructions to enable inertia network services

In clause 4.4.4(d), omit "*inertia generating unit*" and substitute "*inertia unit*".

[648] Clause 4.4.5 Instructions to enable system strength services

In clause 4.4.5(c), omit "*system strength generating unit*" and substitute "*system strength unit*".

[649] Clause 4.6.6 System strength impact assessment guidelines

Omit clause 4.6.6(a) and substitute:

- (a) *AEMO must make, publish and may amend system strength impact assessment guidelines that set out the methodology to be used by Network Service Providers when undertaking system strength impact assessments under clause 5.3.4B in relation to a proposed new connection of a generating system, integrated resource system or market network service facility or an alteration to a generating system or integrated resource system to which clause 5.3.9 applies.*

[650] Clause 4.6.6 System strength impact assessment guidelines

In clause 4.6.6(e), after "to a *Generator*" insert ", *Integrated Resource Provider*".

[651] Clause 4.6.6 System strength impact assessment guidelines

In clause 4.6.6(f), after "from a *Generator*" insert ", *Integrated Resource Provider*".

[652] Clause 4.8.3 AEMO's advice on power system emergency conditions

In clause 4.8.3(b)(2)(i), after "*power system or generation plant*" insert "(including for an *integrated resource unit*)".

[653] Clause 4.8.5 Managing declarations of conditions

In clause 4.8.5(c)(2), omit "*Scheduled Network Service Providers, Market Customers, Demand Response Service Providers, Semi-Scheduled Generators and Scheduled Generators*" and substitute "*Market Participants in respect of scheduled resources*".

[654] Clause 4.8.5A Determination of the latest time for AEMO intervention

In clause 4.8.5A(d), after "*Semi-Scheduled Generator*" insert ", *Scheduled Integrated Resource Provider*".

[655] Clause 4.8.5A Determination of the latest time for AEMO intervention

Omit clause 4.8.5A(e)(3) and substitute:

- (3) estimates of the relevant costs to be incurred by the *Scheduled Network Service Provider, Scheduled Generator, Scheduled Integrated Resource Provider* or *Market Customer* should it be the subject of a *direction*, but only if *AEMO* considers it reasonably likely that such *Scheduled Network Service Provider, Scheduled Generator, Scheduled Integrated Resource Provider* or *Market Customer* will be subject to a *direction*.

[656] Clause 4.8.5A Determination of the latest time for AEMO intervention

In clause 4.8.5A(f), omit "*Scheduled Generator* or *Semi-Scheduled Generator*" and substitute "*Scheduled Generator, or Semi-Scheduled Generator, Scheduled Integrated Resource Provider*".

[657] Clause 4.8.5A Determination of the latest time for AEMO intervention

Omit clause 4.8.5A(h) and substitute:

- (h) *AEMO* must treat any information provided in response to a request under paragraph (d) as *confidential information* and use it for the sole purpose of assessing to which *Scheduled Network Service Provider, Market Customer, Scheduled Generator* or *Scheduled Integrated Resource Provider* it should issue *directions*.

[658] Clause 4.8.7 Managing a power system contingency event

In clause 4.8.7(a)(1), omit "*generating units* or *transmission networks*" and substitute "*generating units, integrated resource units, transmission networks*".

[659] Clause 4.8.9 Power to issue directions and clause 4.8.9 instructions

Omit clause 4.8.9(a1)(1) and substitute:

- (1) take action as contemplated by clause 4.8.9(a) or section 116 of the *NEL* in relation to a *scheduled resource* (other than *wholesale demand response unit*), an ancillary service unit, a *market generating unit* or a *market integrated resource unit*, *AEMO* is taken to have issued a *direction*; or

[660] Clause 4.8.9 Power to issue directions and clause 4.8.9 instructions

In clause 4.8.9(h)(1), omit ", *dispatch offers*".

[661] Clause 4.8.10 Disconnection of generating units and market network services

Omit the heading in clause 4.8.10 and substitute:

4.8.10 Disconnection of generating units, integrated resource units and market network services

[662] Clause 4.8.10 Disconnection of generating units, integrated resource units and market network services

In clause 4.8.10(a), after "to *disconnect a generating unit*" insert ", an *integrated resource unit*".

[663] Clause 4.8.10 Disconnection of generating units, integrated resource units and market network services

In clause 4.8.10(b), after "The relevant *Generator*" insert ", *Integrated Resource Provider*".

[664] Clause 4.8.12 System restart plan and local black system procedures

In clause 4.8.12(a2)(3), after "a *Generator*" insert "or *Integrated Resource Provider*".

[665] Clause 4.8.12 System restart plan and local black system procedures

Omit clause 4.8.12(d) (excluding the note) and substitute:

- (d) Each *Generator*, *Integrated Resource Provider* and *Network Service Provider* must develop *local black system procedures* in accordance with the guidelines referred to in clause 4.8.12(e). The *Registered Participant's local black system procedures* must be consistent with any *ancillary services agreement* to provide *SRASs* to which that *Registered Participant* is a party. On request from *AEMO*, or as a result of a significant change of circumstances, a *Registered Participant* must review, and amend if appropriate, its *local black system procedures*.

[666] Clause 4.8.12 System restart plan and local black system procedures

In clause 4.8.12(e), after "in consultation with *Generators*" insert ", *Integrated Resource Providers*".

[667] Clause 4.8.12 System restart plan and local black system procedures

In clause 4.8.12(f)(1A), after "action the *Generator*" insert ", *Integrated Resource Provider*".

[668] Clause 4.8.12 System restart plan and local black system procedures

In clause 4.8.12(f)(2), after "which a *Generator*" insert ", *Integrated Resource Provider*".

[669] Clause 4.8.12 System restart plan and local black system procedures

In clause 4.8.12(g), after "Each *Generator*" insert ", *Integrated Resource Provider*".

[670] Clause 4.8.12 System restart plan and local black system procedures

In clause 4.8.12(i), after each reference to "a *Generator*" insert ", *Integrated Resource Provider*".

[671] Clause 4.8.12 System restart plan and local black system procedures

In clause 4.8.12(k)(1)(iii), omit "*Network Service Providers and Generators*" and substitute "*Network Service Providers, Generators and Integrated Resource Providers*".

[672] Clause 4.8.14 Power system restoration

Omit clause 4.8.14(b) (excluding the note) and substitute:

- (b) If *AEMO* advises a *Generator, Integrated Resource Provider* or *Network Service Provider* of a *major supply disruption*, or if the terms of the relevant *local black system procedures* require the *Generator, Integrated Resource Provider* or *Network Service Provider* to take action, then the *Generator, Integrated Resource Provider* or *Network Service Provider* must comply with the requirements of the *local black system procedures* as quickly as is practicable.

[673] Clause 4.8.14 Power system restoration

In clause 4.8.14(d), after "*disruption, a Generator*" insert ", *Integrated Resource Provider*".

[674] Clause 4.9.1 Load forecasting

In clause 4.9.1(c)(1), after "from *embedded generating units*" insert "and *embedded integrated resource units*".

[675] Clause 4.9.2 Instructions to Scheduled Generators and Semi-Scheduled Generators

Omit the heading of clause 4.9.2 and substitute:

4.9.2 Instructions to Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

[676] Clause 4.9.2 Instructions to Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

Omit clause 4.9.2(a) and substitute:

(a) To implement *central dispatch* or, where *AEMO* has the power to direct or to instruct a *Scheduled Generator*, *Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* either under Chapter 3 or this Chapter, then for the purpose of giving effect to that direction or instruction, *AEMO* may at any time give an instruction to the *Generator* or *Integrated Resource Provider* in relation to any of its *generating units* or *integrated resource units* (a *dispatch instruction*), in accordance with clause 4.9.5(b), nominating:

- (1) whether the facilities for *generation* remote control by *AEMO*, if available, must be in service; and
- (2) in the case of a:
 - (i) *scheduled generating unit* or *scheduled integrated resource unit*, the level or schedule of power; and
 - (ii) *semi-scheduled generating unit*, the *dispatch level*,

to be supplied by the *generating unit* or *integrated resource unit* over the specified period.

[677] Clause 4.9.2 Instructions to Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

In clause 4.9.2(b), omit "*Generator* in relation to any of its *generating units* with a *nameplate rating* of 30MW or more, or its systems of combined" and substitute "*Generator* or *Integrated Resource Provider* in relation to any of its *generating units* with a *nameplate rating* of 30MW or more, or its *generating systems* systems of combined".

[678] Clause 4.9.2 Instructions to Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

After clause 4.9.2(b) insert:

- (b1) Subject to paragraph (c), *AEMO* may at any time give an instruction to an *Integrated Resource Provider* in relation to any of its *integrated resource units* with a *nameplate rating* of 5 MW or more, or its *integrated resource systems* of combined *nameplate rating* of 5 MW or more, nominating that:
- (1) the *integrated resource unit* or *integrated resource system* transformer is to be set to a nominated tap position (if it has on-load tap changing capability);
 - (2) the *integrated resource unit's* or *integrated resource system's* *voltage control system* set-point is to be set to give a nominated *voltage*; or
 - (3) the *integrated resource unit* or *integrated resource system* is to be operated to supply or absorb a nominated level of *reactive power* at its *connection point*.

[679] Clause 4.9.2 Instructions to Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

Omit clause 4.9.2(c) and substitute:

- (c) Unless otherwise provided under an *ancillary services agreement*, a *network support agreement* or a *connection agreement*, *AEMO* must not give an instruction under paragraph (b) or (b1) that requires a *generating unit* or *generating system* or *integrated resource unit* or *integrated resource system* (as applicable) to supply or absorb *reactive power* at a level outside the *plant's* relevant *performance standard*.

[680] Clause 4.9.2 Instructions to Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

Omit clause 4.9.2(d) (excluding the note) and substitute:

- (d) *A Scheduled Generator, Semi-Scheduled Generator or Scheduled Integrated Resource Provider must, with respect to its generating units or integrated resource units that have an availability offer of greater than 0 MW (whether synchronised or not), ensure that appropriate personnel are available at all times to receive and immediately act upon dispatch instructions issued by AEMO to the relevant Generator or Integrated Resource Provider.*

[681] New Clause 4.9.2A Instructions to each scheduled resource in a hybrid integrated resource system

After clause 4.9.2, insert a new clause 4.9.2A:

4.9.2A Instructions to each scheduled resource in a hybrid integrated resource system

- (a) *This clause applies in relation to integrated resource systems that comprise more than one scheduled resource and where AEMO gives separate dispatch instructions for each scheduled resource.*
- (b) *An Integrated Resource Provider for an integrated resource system to which this clause applies may comply in aggregate with the dispatch instructions for a trading interval for two or more of the scheduled resources comprised in the integrated resource system, excluding any scheduled resource for which unit level compliance has been nominated in accordance with paragraph (c).*
- (c) *AEMO may specify in a dispatch instruction for a scheduled resource in an integrated resource system that the scheduled resource the subject of the dispatch instruction is required to operate at the level specified in, and otherwise in accordance with, the dispatch instruction (unit level compliance).*
- (d) *AEMO must make, as a power system operating procedure, a procedure setting out:*
 - (1) *for the purposes of paragraph (b), permitted forms of aggregate compliance by one or more scheduled resources comprised in an integrated resource system (through measurement at the connection point for the integrated resource system or otherwise); and*

- (2) arrangements for *AEMO* to specify when unit level compliance is required for the purposes of paragraph (c).

[682] Clause 4.9.3 Instructions to Registered Participants

Omit clause 4.9.3(a) and substitute:

- (a) *AEMO* may, at any time, give instructions to *Registered Participants* to reduce the electricity consumption of their *scheduled load* consistent with *dispatch bids* made in accordance with Chapter 3 (*dispatch instructions*).

[683] Clause 4.9.3A Ancillary services instructions

In clause 4.9.3A(a), omit "a *Market Participant* which has classified one or more of its *generating units* or *loads* as an *ancillary service generating unit* or an *ancillary service load*" and substitute "an *Ancillary Service Provider*".

[684] Clause 4.9.3A Ancillary services instructions

In clause 4.9.3A(a)(1), omit "the relevant *generating unit* or *load*" and substitute "an *ancillary service unit* of the *Ancillary Service Provider*".

[685] Clause 4.9.3A Ancillary services instructions

Omit clause 4.9.3A(c) (excluding the note) and substitute:

- (c) An *Ancillary Service Provider* who has submitted a *market ancillary service bid* in respect of its *ancillary service unit* must ensure that appropriate personnel or electronic facilities are available at all times to receive and immediately act upon *dispatch instructions* issued to the *Ancillary Service Provider* by *AEMO*.

[686] Clause 4.9.4 Dispatch related limitations on Scheduled Generators and Semi-Scheduled Generators

Omit the heading of clause 4.9.2 and substitute:

4.9.4 Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

[687] Clause 4.9.4 Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

In clause 4.9.4, omit the opening paragraph and substitute:

A Scheduled Generator, Semi-Scheduled Generator or Scheduled Integrated Resource Provider (as the case may be) must not, unless in the Generator's or Integrated Resource Provider's reasonable opinion, public safety would otherwise be threatened or there would be a material risk of damaging equipment or the environment:

[688] Clause 4.9.4 Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

In clause 4.9.4(a), after "a *generating unit*" insert "or *integrated resource unit*".

[689] Clause 4.9.4 Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

In clause 4.9.4(b), after "*scheduled generating unit*" insert ", *scheduled integrated resource unit*".

[690] Clause 4.9.4 Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

In clause 4.9.4(b)(3), after each reference to "the *Generator's*" insert "or *Integrated Resource Provider's*".

[691] Clause 4.9.4 Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

In clause 4.9.4(c), after "to a *generating unit*" insert "or *integrated resource unit*".

[692] Clause 4.9.4 Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

In clause 4.9.4(e), after "a *scheduled generating unit*" insert "or *scheduled integrated resource unit*".

[693] Clause 4.9.4 Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers

In clause 4.9.4(f), after "on that *generating unit*" insert "or *integrated resource unit*".

[694] Clause 4.9.5 Form of dispatch instructions

In clause 4.9.5(a), omit "*scheduled generating unit, semi-scheduled generating unit, scheduled network service or scheduled load*" and substitute "*scheduled resource (other than a wholesale demand response unit)*".

[695] Clause 4.9.5 Form of dispatch instructions

In clause 4.9.5(a)(1), omit "*generating unit (including any aggregated generating unit), scheduled network service or scheduled load or other facility*" and substitute "*scheduled resource (including any aggregated scheduled resources)*".

[696] Clause 4.9.5 Form of dispatch instructions

In clause 4.9.5(a)(3), after "by the *generating unit*" insert "or *integrated resource unit*".

[697] Clause 4.9.5 Form of dispatch instructions

In clause 4.9.5(a1)(1), omit "*generating unit or load*" and substitute "*ancillary service unit*".

[698] Clause 4.9.8 General responsibilities of Registered Participants

Omit clause 4.9.8(a1) and substitute:

- (a1) A *Scheduled Generator, Semi-Scheduled Generator or Scheduled Integrated Resource Provider* is not taken to have failed to comply with a *dispatch instruction* as a consequence of its *generating unit or integrated resource unit* operating in *frequency response mode* in order to adjust *power system frequency* in response to *power system conditions*.

[699] Clause 4.9.8 General responsibilities of Registered Participants

In clause 4.9.8(b1), omit "*network dispatch offer*" and substitute "*dispatch bid*".

[700] Clause 4.9.8 General responsibilities of Registered Participants

After clause 4.9.8(b1) insert:

- (b2) *A Scheduled Integrated Resource Provider* must ensure that each of its *scheduled integrated resource units* is at all times able to comply with the latest *dispatch bid* under Chapter 3 in respect of that *integrated resource unit*.

Note

The AEMC proposes to recommend that clause 4.9.8(b2) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

[701] Clause 4.9.8 General responsibilities of Registered Participants

Omit clause 4.9.8(d) (excluding the note) and substitute:

- (d) *An Ancillary Service Provider* must ensure that each of its *ancillary service units* is at all times able to comply with the latest *market ancillary service bid* for the relevant *trading interval*.

[702] Clause 4.9.8 General responsibilities of Registered Participants

In clause 4.9.8(e), omit "*generation dispatch offer*" and substitute "*dispatch bid*".

[703] Clause 4.9.9 Scheduled Generator plant changes

Omit the heading in clause 4.9.9 and substitute:

4.9.9 Scheduled Generator or Scheduled Integrated Resource Provider plant changes

[704] Clause 4.9.9 Scheduled Generator or Scheduled Integrated Resource Provider

**plant
change
s**

Omit clause 4.9.9 (excluding the note) and substitute:

A Scheduled Generator or Scheduled Integrated Resource Provider must, without delay, notify *AEMO* of any event which has changed or is likely to change the operational availability of any of its *scheduled generating units* or *scheduled integrated resource units*, whether the relevant *generating unit* or *integrated resource unit* is *synchronised* or not, as soon as the *Scheduled Generator or Scheduled Integrated Resource Provider* becomes aware of the event.

[705] Clause 4.9.9B Ancillary service plant changes

Omit clause 4.9.9B (excluding the note) and substitute:

An *Ancillary Service Provider* must, without delay, notify *AEMO* of any event which has changed or is likely to change the availability of a *market ancillary service*, or the capability of the *ancillary service unit* to respond in the manner contemplated by the *market ancillary service specification*, as soon as the *Market Participant* becomes aware of the event.

[706] Clause 4.11.1 Remote control and monitoring devices

In clause 4.11.1(a)(1), after "*scheduled generating unit*" insert ", *scheduled integrated resource unit*".

[707] Clause 4.11.1 Remote control and monitoring devices

In clause 4.11.1(d), after "*Network Service Provider, a Generator*" insert ", an *Integrated Resource Provider*".

[708] Clause 4.11.1 Remote control and monitoring devices

In clause 4.11.1(d)(1), after "or *distribution system, generating unit*" insert "or *integrated resource unit*".

[709] Clause 4.11.1 Remote control and monitoring devices

In clause 4.11.1(e), after "*Network Service Provider, Generator*" insert ", *Integrated Resource Provider*".

[710] Clause 4.11.1 Remote control and monitoring devices

In clause 4.11.1(g), after "A *Generator*" insert ", *Integrated Resource Provider*".

[711] Clause 4A.A.1 Definitions

In clause 4A.A.1, omit the definition of "**generator capacity**".

[712] Clause 4A.A.1 Definitions

In clause 4A.A.1, insert the following definition in alphabetical order:

production capacity has the meaning given in clause 4A.G.3(b).

[713] Clause 4A.A.1 Definitions

In clause 4A.A.1, omit the definition of "**registered capacity**" and substitute the following:

registered capacity means in respect of a *generating unit* or *integrated resource unit*, the amount, in MW, shown as 'registered capacity' attributable to that *generating unit* or *integrated resource unit* in the 'NEM registration and exemption list' published by *AEMO* (in the case of an *integrated resource unit*, insofar as referable to its capacity to produce electricity).

[714] Clause 4A.D.2 Liable entities

Omit clause 4A.D.2(a)(1) (excluding the note) and substitute:

- (1) the person is a *Market Customer* or *Integrated Resource Provider* and is *financially responsible* for a *connection point* in that *region* at the end of the contract position day but only to the extent there is no opt-in customer for that *connection point* at the end of the contract position day;

[715] Clause 4A.D.2 Liable entities

In clause 4A.D.2(b), after "*Market Customer*" insert "or *Integrated Resource Provider*".

[716] Clause 4A.D.2 Liable entities

In clause 4A.D.2(b)(1), omit "registered" and substitute "*financially responsible*".

[717] Clause 4A.D.2 Liable entities

Omit clause 4A.D.2(b)(2) and substitute:

- (2) the aggregate consumption of electricity of all *connection points* in that *region* for which it is *financially responsible* at the end of the contract position day (excluding any *market connection point* for a *market generating unit* or *small generating unit*) is equal to or less than 10 GWh per annum as determined in accordance with the Contracts and Firmness Guidelines.

[718] Clause 4A.D.3 New entrants

In clause 4A.D.3(a), after "*Market Customer*" insert "or *Integrated Resource Provider* that is *financially responsible*".

[719] Clause 4A.D.3 New entrants

Omit clause 4A.D.3(c) (excluding the note) and substitute:

- (c) the aggregate consumption of electricity of all *connection points* in that *region* for which it is *financially responsible* at the end of the new entrant contract position day (excluding any *market connection point* for a *market generating unit* or *small generating unit*) exceeds, or is expected to exceed, 10 GWh per annum as determined in accordance with the Contracts and Firmness Guidelines.

[720] Clause 4A.D.4 Application to register as large opt-in customer

In clause 4A.D.4(a)(2), after "from the *Market Customer*" insert "or *Integrated Resource Provider*".

[721] Clause 4A.D.4 Application to register as large opt-in customer

Omit clause 4A.D.4(c) and substitute:

- (c) An applicant must provide evidence to the *AER* as part of the application that it has given notice of the application to the *Market Customer* or *Integrated Resource Provider* that is *financially responsible* for the *connection point*. The *financially responsible Market Participant's* consent is not required to make an application.

[722] Clause 4A.D.5 Application to register as prescribed opt-in customer

In clause 4A.D.5(a)(3), omit "*load*" and insert "*electricity supplied*".

[723] Clause 4A.D.5 Application to register as prescribed opt-in customer

Omit clause 4A.D.5(c) and substitute:

- (c) An applicant must provide evidence to the *AER* as part of the application that it has given notice of the application to the *financially responsible Market Participant* and any existing prescribed opt-in customer for the *connection point*. The consent of the *financially responsible Market Participant* is not required to make an application. An existing prescribed opt-in customer's consent is not required unless approval of the application would require a change to the percentage of the *load* for which that prescribed opt-in customer is registered.

[724] Clause 4A.D.8 AER approval of applications

Omit clause 4A.D.8(b) and substitute:

- (b) If the *AER* rejects an application for registration, it must give the applicant written reasons for its decision. The *AER* may inform the *financially responsible Market Participant* for the relevant *connection point* of the rejection in accordance with the *AER Opt-In Guidelines*, or must inform the *financially responsible Market Participant* on request.

[725] Clause 4A.D.8 AER approval of applications

In clause 4A.D.8(c), omit "*Market Customer*" and substitute "*financially responsible Market Participant*".

[726] Clause 4A.D.8 AER approval of applications

In clause 4A.D.8(d), omit "*Market Customer*" and substitute "*financially responsible Market Participant*".

[727] Clause 4A.D.8 AER approval of applications

In clause 4A.D.8(e)(2), omit "*Market Customer*" and substitute "*financially responsible Market Participant*".

[728] Clause 4A.D.10 Changes to register

In clause 4A.D.10(d), omit "*Market Customer*" and substitute "*financially responsible Market Participant*".

[729] Clause 4A.D.10 Changes to register

In clause 4A.D.10(e), omit "*Market Customer*" and substitute "*financially responsible Market Participant*".

[730] Clause 4A.D.13 AER Opt-In Guidelines

In clause 4A.D.13(b)(3), after "*Market Customers*" insert ", *Integrated Resource Providers*".

[731] Clause 4A.D.13 AER Opt-In Guidelines

In clause 4A.D.13(b)(6), omit "*Market Customer*" and substitute "*financially responsible Market Participant*".

[732] Clause 4A.F.3 Share of one-in-two year peak demand forecast

Omit clause 4A.F.3(b)(1) and substitute:

- (1) if the liable entity is a *Market Participant*, the aggregate of the *adjusted gross energy* for each *connection point* for which it is *financially responsible* for the compliance TI (less any *adjusted gross energy* allocated to a prescribed opt-in customer at one of those *connection points* and excluding any *market connection point* for a *market generating unit* or *small generating unit*) based on the relevant *routine revised statements* for the *billing periods* relating to the *reliability gap period* given approximately 30 weeks after the relevant *billing period*;

[733] Clause 4A.F.3 Share of one-in-two year peak demand forecast

In clause 4A.F.3(b)(2), omit all references to "*Market Customer*" and substitute "*Market Participant*".

[734] Clause 4A.F.3 Share of one-in-two year peak demand forecast

In clause 4A.F.3(c), omit "*Market Customer*" and substitute "*Market Participant*".

[735] Clause 4A.G.1 Overview of Part G

Omit clause 4A.G.1(c) and substitute:

- (c) Division 2 specifies how this Part applies to *Market Generators* and *Integrated Resource Providers* and how a *Market Generator's* and *Integrated Resource Provider's* trading right holder is identified.

[736] Clause 4A.G.1 Overview of Part G

Omit clause 4A.G.1(e) and substitute:

- (e) Division 4 sets out how a *Market Generator's* and *Integrated Resource Provider's* production capacity is allocated to a trading group, for the purposes of assessing each trading group's market share of *generation* in a *region*.

[737] Clause 4A.G.1 Overview of Part G

In clause 4A.G.1(f), after "*Market Generators*" insert "or *Integrated Resource Providers*".

[738] Division 2 Market Generators and trading right holders

Omit the heading of Division 2, above clause 4A.G.3 and substitute:

Division 2 Market Generators, Integrated Resource Providers and trading right holders

[739] Clause 4A.G.3 Market Generators and generator capacity

Omit the heading of clause 4A.G.3 and substitute:

4A.G.3 Market Generators, Integrated Resource Providers and production capacity

[740] Clause 4A.G.3 Market Generators, Integrated Resource Providers and production capacity

Omit clause 4A.G.3(a) and substitute:

- (a) This Part applies to a *Market Generator* and *Integrated Resource Provider* in each *region*, in so far as its activities relate to any one or more *scheduled generating units* or *scheduled integrated resource units* that are:
 - (1) classified as a *market generating unit* or *market integrated resource unit* under Chapter 2; and

- (2) located in that *region*.

[741] Clause 4A.G.3 Market Generators, Integrated Resource Providers and production capacity

Omit clause 4A.G.3(b) (excluding the note) and substitute:

- (b) Subject to clause 4A.G.21(b), production capacity means:
- (1) in respect of a *Market Generator* for a *region*, the registered capacity of each *scheduled generating unit* of that *Market Generator* that is classified as a *market generating unit* under Chapter 2 and located in that *region*; and
 - (2) in respect of an *Integrated Resource Provider* for a *region*, the registered capacity of each *scheduled integrated resource unit* of that *Integrated Resource Provider* that is classified as a *market integrated resource unit* under Chapter 2 and located in that *region*.

[742] Clause 4A.G.4 Trading rights and trading right holders

Omit clause 4A.G.4(a) and substitute:

- (a) A person ("**trading right holder**") holds a trading right, in respect of a *Market Generator's* or *Integrated Resource Provider's* production capacity, if it has dispatch control over all or a portion of that production capacity.

[743] Clause 4A.G.4 Trading rights and trading right holders

Omit clause 4A.G.4(b) and substitute:

- (b) For the purposes of paragraph (a), dispatch control means the ability to control the making of *dispatch bids* under Chapter 3 in relation to all or a portion of a *Market Generator's* or *Integrated Resource Provider's* production capacity, as determined in the MLO Guidelines.

[744] Clause 4A.G.4 Trading rights and trading right holders

In clause 4A.G.4(c), omit "generator capacity" and substitute "or *Integrated Resource Provider's* production capacity".

[745] Clause 4A.G.4 Trading rights and trading right holders

Omit clause 4A.G.4(c)(2) and substitute:

- (2) such that the aggregate trading rights held by each trading right holder must be equal to the production capacity of the relevant *Market Generator or Integrated Resource Provider*; and

[746] Clause 4A.G.4 Trading rights and trading right holders

Omit clause 4A.G.4(d) and substitute:

- (d) If the *AER* is not satisfied that the information provided by a *Market Generator* or *Integrated Resource Provider* under clause 4A.G.13 relating to the identity of its trading right holders, or the trading rights held by each of its trading right holders, is consistent with the dispatch control arrangements applicable to that *Market Generator's* or *Integrated Resource Provider's* production capacity, then the *AER* may, in accordance with the MLO Guidelines, make its own determination of:
 - (1) the identity of each *Market Generator's* or *Integrated Resource Provider's* trading right holder; and
 - (2) the trading rights held by that trading right holder.

[747] Clause 4A.G.5 Trading group

In clause 4A.G.5(a)(1), after "*scheduled generating units*" insert "*or scheduled integrated resource units*".

[748] Clause 4A.G.7 Traced capacity

In clause 4A.G.7(a), omit "generator capacity" and substitute "*or Integrated Resource Provider's* production capacity".

[749] Clause 4A.G.7 Traced capacity

In clause 4A.G.7(b), after "*Market Generator's*" insert "*or Integrated Resource Provider's*".

[750] Clause 4A.G.7 Traced capacity

In clause 4A.G.7(c), omit "generation capacity" and substitute "production capacity".

[751] Clause 4A.G.8 Tracing capacity to trading groups

In clause 4A.G.8(c), omit all references to "generator capacity" and insert "*or Integrated Resource Provider's* production capacity".

[752] Clause 4A.G.8 Tracing capacity to trading groups

Omit clause 4A.G.8(d) and insert:

- (d) If paragraph (b) applies and a *Market Generator* or *Integrated Resource Provider* fails to notify the *AER* of the allocation of its production capacity as required under clause 4A.G.13, then the relevant parcel of that *Market Generator's* or *Integrated Resource*

Provider's production capacity, is allocated to each relevant trading group simultaneously.

[753] Clause 4A.G.11 MLO generator

In clause 4A.G.11, after "a *Market Generator*" insert "or *Integrated Resource Provider*".

[754] Division 6 Market Generator information

Omit the heading of Division 6, above clause 4A.G.12 and substitute:

Division 6 Market Generator and Integrated Resource Provider information

[755] Clause 4A.G.12 MLO register

In clause 4A.G.12(b)(1), after "each *Market Generator*" insert "and *Integrated Resource Provider*".

[756] Clause 4A.G.12 MLO register

Omit clause 4A.G.12(b)(2) and substitute:

(2) the production capacity of each *Market Generator* and *Integrated Resource Provider*;

[757] Clause 4A.G.12 MLO register

In clause 4A.G.12(b)(3), after "*Market Generator*" insert "and *Integrated Resource Provider*".

[758] Clause 4A.G.12 MLO register

In clause 4A.G.12(b)(6), after "*Market Generator's*" insert "or *Integrated Resource Provider's*".

[759] Clause 4A.G.12 MLO register

In clause 4A.G.12(e)(1), after "*Market Generator*" insert "or *Integrated Resource Provider*".

[760] Clause 4A.G.12 MLO register

In clause 4A.G.12(h), after "*Market Generator*" insert "or *Integrated Resource Provider*".

[761] Clause 4A.G.13 Market Generator information

Omit the heading of clause 4A.G.13 and substitute:

4A.G.13 Market Generator and Integrated Resource Provider information

[762] Clause 4A.G.13 Market Generator and Integrated Resource Provider information

In clause 4A.G.13(a), after "*Each Market Generator*" insert "*and Integrated Resource Provider*".

[763] Clause 4A.G.13 Market Generator and Integrated Resource Provider information

After clause 4A.G.13(a)(1)(i) insert:

- (i1) the *scheduled integrated resource units* in relation to which it is an *Integrated Resource Provider*;

[764] Clause 4A.G.13 Market Generator and Integrated Resource Provider information

In clause 4A.G.13(a)(1)(ii), omit "generator" and substitute "production".

[765] Clause 4A.G.13 Market Generator and Integrated Resource Provider information

In clause 4A.G.13(a)(2), after "*Market Generator*" insert "*or Integrated Resource Provider*".

[766] Clause 4A.G.13 Market Generator and Integrated Resource Provider information

Omit clause 4A.G.13(b) (excluding the note) and substitute:

- (b) *A Market Generator or Integrated Resource Provider may provide information to the AER under this clause on behalf of other Market Generators or Integrated Resource Providers whose trading right holder belongs to the same trading group, in which case, those other Market Generators or Integrated Resource Providers will be taken to have complied with this clause.*

[767] Clause 4A.G.14 Applications to the AER

In clause 4A.G.13(a), after "*A Market Generator*" insert "*or Integrated Resource Provider*".

[768] Clause 4A.G.14 Applications to the AER

In clause 4A.G.13(c)(1), after "*a Market Generator*" insert "*or Integrated Resource Provider*".

[769] Clause 4A.G.14 Applications to the AER

In clause 4A.G.13(d)(1), after "the *Market Generator*" insert "or *Integrated Resource Provider*".

[770] Clause 4A.G.21 Exemptions

Omit clause 4A.G.21(b) and substitute:

- (b) If a *scheduled generating unit* or *scheduled integrated resource unit* is the subject of a notice to *AEMO* under clause 2.10.1(a)(2) and the *closure date* specified in the notice is earlier than the start of a forecast reliability gap period, then in this Division, for the purposes of determining MLO generators and assessing compliance with the liquidity obligation in relation to that forecast reliability gap period, production capacity is taken not to include the registered capacity of the *scheduled generating unit* or *scheduled integrated resource unit* that is the subject of the notice, as determined (where relevant) in accordance with the MLO Guidelines.

[771] Clause 4A.G.25 MLO Guidelines

In clause 4A.G.25(b)(1), omit "generator capacity" and substitute "or *Integrated Resource Provider's* production capacity".

[772] Clause 4A.G.25 MLO Guidelines

Omit clause 4A.G.25(b)(2) and substitute:

- (2) the methodology and process for allocating a *Market Generator's* or *Integrated Resource Provider's* production capacity to one or more trading groups under clause 4A.G.8, and any supporting material a *Market Generator* or *Integrated Resource Provider's* must provide when notifying the *AER* of an allocation;

[773] Clause 4A.G.25 MLO Guidelines

In clause 4A.G.25(b)(4), after "each *Market Generator*" insert "or *Integrated Resource Provider*".

[774] Clause 5.1.2 Overview of Part B and connection and access under the Rules

In clause 5.1.2(d) table, in row 6, after "An *embedded generating unit*", insert "or *embedded integrated resource unit*".

[775] Clause 5.1.2 Overview of Part B and connection and access under the Rules

In clause 5.1.2(d) table, in row 8, omit the text in the middle column and substitute "A *Generator* or *Integrated Resource Provider* wishing to alter a *generating system* or an *integrated resource system* in the circumstances set out in clause 5.3.9".

[776] Clause 5.1.2 Overview of Part B and connection and access under the Rules

In clause 5.1.2(d) table, in row 9, omit "*connected generating plant*" and substitute "*generating system* or *integrated resource system*".

[777] Clause 5.1.2 Overview of Part B and connection and access under the Rules

In clause 5.1.2(d) table, in row 10, after "*An Embedded Generator*" insert ", *Embedded Integrated Resource Provider*".

[778] Clause 5.1.2 Overview of Part B and connection and access under the Rules

In clause 5.1.2(d) table, in row 11, omit "or *generating plant*" and substitute ", *generating system* or *integrated resource system*".

[779] Clause 5.1.2 Overview of Part B and connection and access under the Rules

In clause 5.1.2(e)(2), omit "clause 5.3AA(f) (*negotiated use of system charges*) or 5.3AA(h) (*avoided charges for the locational component of prescribed TUOS services*)" and substitute "clause 5.3AA(f) or 5.3AA(h)".

[780] Clause 5.2.3 Obligations of network service providers

In clause 5.2.3(d)(11), after "*Generators*", insert "or *Integrated Resource Providers*".

[781] New clause 5.2.5A Obligations of Integrated Resource Providers

After clause 5.2.5, insert:

5.2.5A Obligations of Integrated Resource Providers

- (a) An *Integrated Resource Provider* must plan and design its *facilities* and ensure that they are operated to comply with:
 - (1) the *performance standards* applicable to those *facilities*;
 - (2) subject to subparagraph (1), its *connection agreement* applicable to those *facilities*; and

- (3) subject to subparagraph (2), the *system standards*.

Note

The AEMC proposes to recommend that clause 5.2.5A(a) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

- (b) An *Integrated Resource Provider* must:
 - (1) submit an *application to connect* in respect of new *generating plant* (including an *integrated resource system*) owned, operated or controlled by the *Integrated Resource Provider*, or to be owned, operated or controlled by the *Integrated Resource Provider*, and enter into a *connection agreement* with a *Network Service Provider* in accordance with rule 5.3 prior to that *generating plant* being *connected* to the *network* of that provider;
 - (2) comply with the reasonable requirements of the relevant *Network Service Provider* in respect of design requirements of *generating plant* proposed to be *connected* to the *network* of that provider in accordance with rule 5.6 and schedule 5.2;
 - (3) provide *generation* forecast information to the relevant *Network Service Provider* in accordance with Part D of Chapter 5;
 - (4) permit and participate in inspection and testing of *facilities* and equipment in accordance with rule 5.7;
 - (5) permit and participate in commissioning of *facilities* and equipment which are to be *connected* to a *network* for the first time in accordance with rule 5.8; and
 - (6) give notice of intended voluntary permanent *disconnection* in accordance with rule 5.9.
- (c) An *Integrated Resource Provider* must comply with any terms and conditions of a *connection agreement* for its *generating system* or *integrated resource system* that provide for the implementation, operation, maintenance or performance of a *system strength remediation scheme*.

Note

The AEMC proposes to recommend that clause 5.2.5A(c) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

- (d) If in *AEMO's* reasonable opinion, there is a risk that an *Integrated Resource Provider's plant* will:
- (1) adversely affect *network capability, power system security, quality or reliability of supply or inter-regional power transfer capability*;
 - (2) adversely affect the use of a *network* by a *Network User*; or
 - (3) have an *adverse system strength impact*,

AEMO may request an *Integrated Resource Provider* to provide information of the type described in clause S5.2.4, and following such a request, the *Integrated Resource Provider* must provide the information to *AEMO* and the relevant *Network Service Provider(s)* in accordance with the requirements and circumstances specified in the *Power System Model Guidelines*, the *Power System Design Data Sheet* and the *Power System Setting Data Sheet*.

Note

The AEMC proposes to recommend that clause 5.2.5A(d) be classified as a Tier 2 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

- (e) If in *AEMO's* reasonable opinion, information of the type described in clause S5.2.4 is required to enable a *Network Service Provider* to conduct the assessment required by clause 5.3.4B, *AEMO* may request an *Integrated Resource Provider* to provide the information, and following such a request, the *Integrated Resource Provider* must provide the information to *AEMO* and the relevant *Network Service Provider*.

Note

The AEMC proposes to recommend that clause 5.2.5A(e) be classified as a Tier 2 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

- (f) All information provided to *AEMO* and the relevant *Network Service Provider(s)* under paragraphs (d) and (e) must be treated as *confidential information* by those recipients.

[782] Clause 5.2A.3 Connection and access to transmission services

After clause 5.2A.3(b), insert:

- (b1) Where the classification of a *shared transmission service* as a *prescribed transmission service* or a *negotiated transmission service* may be determined by reference to the *network* performance requirements in the *connection agreement*, the *Connection Applicant* may specify whether the application is for provision of the service as a *prescribed transmission service* or as a *negotiated transmission service* and the relevant *Transmission Network Service Provider* must comply with the request in negotiating a *connection agreement* for the requested service.

[783] Clause 5.2A.3 Connection and access to transmission services

In clause 5.2A.3(c), omit "*generating plant*" and substitute "*generating system* or *integrated resource system*".

[784] Clause 5.2A.7 Third party IUSAs

In clause 5.2A.7(e)(1), after "a *generating system*", insert "or *integrated resource system*".

[785] Clause 5.2A.7 Third party IUSAs

In clause 5.2A.7(e)(3), after "a *generating system*", insert ", *integrated resource system*".

[786] Clause 5.3.1 Process and procedures

In clause 5.3.1(c), after "A *Generator*", insert "or *Integrated Resource Provider*".

[787] Clause 5.3.1 Process and procedures

In clause 5.3.1(c), after "wishing to alter", insert "any".

[788] Clause 5.3.1A Application of rule to connection of embedded generating units

Omit the heading of clause 5.3.1A and substitute:

5.3.1A Application of rule to connection of embedded generating units and embedded integrated resource units

[789] Clause 5.3.1A Application of rule to connection of embedded generating units and embedded integrated resource units

In clause 5.3.1A(b), after "an *embedded generating unit*", insert "or an *embedded integrated resource unit*".

[790] Clause 5.3.1A Application of rule to connection of embedded generating units and embedded integrated resource units

In clause 5.3.1A(c)(1), after "an *Embedded Generator*", insert "or an *Embedded Integrated Resource Provider*".

[791] Clause 5.3.1A Application of rule to connection of embedded generating units and embedded integrated resource units

In clause 5.3.1A(c)(2), after "an *embedded generating unit*", insert "or as an *Embedded Integrated Resource Provider* in respect of an *embedded integrated resource unit*".

[792] Clause 5.3.1A Application of rule to connection of embedded generating units and embedded integrated resource units

In clause 5.3.1A(c), after "in relation to any *generating systems*", insert "or *integrated resource systems*".

[793] Clause 5.3.3 Response to connection enquiry

In clause 5.3.3(b5), after "new *connection of a generating system*", insert ", *integrated resource system*".

[794] Clause 5.3.4A Negotiated access standards

In clause 5.3.4A(b)(1A), after "by a *Generator*", insert "or *Integrated Resource Provider*".

[795] Clause 5.3.4A Negotiated access standards

In clause 5.3.4A(b)(1A), after "to the *generating system*", insert "or *integrated resource system*".

[796] Clause 5.3.4B System strength remediation for new connections

In clause 5.3.4B(a), after "proposed new *connection of a generating system*", insert ", *integrated resource system*".

[797] Clause 5.3.4B System strength remediation for new connections

In clause 5.3.4B(a), after "alteration to a *generating system*", insert "or *integrated resource system*".

[798] Clause 5.3.4B System strength remediation for new connections

In clause 5.3.4B(a)(1), after "by a *Generator*", insert "or *Integrated Resource Provider*".

[799] Clause 5.3.4B System strength remediation for new connections

In clause 5.3.4B(a)(2), after "from a *Generator*", insert "or *Integrated Resource Provider*".

[800] Clause 5.3.4B System strength remediation for new connections

In clause 5.3.4B(b), omit "or *Generator*" and substitute ", *Generator* or *Integrated Resource Provider*".

[801] Clause 5.3.4B System strength remediation for new connections

In clause 5.3.4B(c)(4), after "a *Generator*", insert "or *Integrated Resource Provider*".

[802] Clause 5.3.4B System strength remediation for new connections

In clause 5.3.4B(c)(4), after "alteration to a *generating system*", insert "or *integrated resource system*".

[803] Clause 5.3.4B System strength remediation for new connections

In clause 5.3.4B(e), omit "or *Generator*" and substitute ", *Generator* or *Integrated Resource Provider*".

[804] Clause 5.3.4B System strength remediation for new connections

In clause 5.3.4B(e), omit "*generating facility*" and substitute "*generating system, integrated resource system*".

[805] Clause 5.3.4B System strength remediation for new connections

In clause 5.3.4B(e), after "the *Generator's*", insert "or *Integrated Resource Provider's*".

[806] Clause 5.3.4B System strength remediation for new connections

In clause 5.3.4B(e), after "alteration to a *generating system*", insert "or *integrated resource system*".

[807] Clause 5.3.6 Offer to connect

In clause 5.3.6(j), after "an *Embedded Generator*", insert ", *Embedded Integrated Resource Provider*".

[808] Clause 5.3.7 Finalisation of connection agreements and network operating agreements

In clause 5.3.7(g)(2), omit "if a *Generator*", and substitute "if the *Registered Participant* is a *Generator* or *Integrated Resource Provider*".

[809] Clause 5.3.9 Procedure to be followed by a Generator proposing to alter a generating system

Omit the heading of clause 5.3.9 and substitute:

5.3.9 Procedure to be followed by a Generator or Integrated Resource Provider proposing to alter a generating system or integrated resource system

[810] Clause 5.3.9 Procedure to be followed by a Generator or Integrated Resource Provider proposing to alter a generating system or integrated resource system

Omit clause 5.3.9(a) and substitute:

- (a) Subject to paragraph (a1), this clause 5.3.9 applies where:
 - (1) a *Generator* or *Integrated Resource Provider* proposes to alter a *connected generating system* or a *generating system* for which *performance standards* have been previously accepted by the *Network Service Provider* and *AEMO* (in relation to *AEMO advisory matters*) and that alteration:
 - (i) will affect the performance of the *generating system* relative to any of the technical requirements set out in clauses S5.2.5, S5.2.6, S5.2.7 and S5.2.8; or
 - (ii) will, in *AEMO's* reasonable opinion, have an *adverse system strength impact*; or
 - (iii) will, in *AEMO's* reasonable opinion, adversely affect *network capability, power system security, quality or reliability of supply, inter-regional power transfer*

capability or the use of a *network* by another *Network User*.

- (2) an *Integrated Resource Provider* proposes to alter a *connected integrated resource system* or an *integrated resource system* for which *performance standards* have been previously accepted by the *Network Service Provider* and *AEMO* (in relation to *AEMO advisory matters*) and that alteration:
- (i) will affect the performance of the *integrated resource system* relative to any of the technical requirements set out in clauses S5.2.5, S5.2.6, S5.2.7 and S5.2.8; or
 - (ii) will, in *AEMO's* reasonable opinion, have an *adverse system strength impact*; or
 - (iii) will, in *AEMO's* reasonable opinion, adversely affect *network capability, power system security, quality or reliability of supply, inter-regional power transfer capability* or the use of a *network* by another *Network User*.

[811] Clause 5.3.9 Procedure to be followed by a Generator or Integrated Resource Provider proposing to alter a generating system or integrated resource system

In clause 5.3.9(a1), after each occasion of "*generating system*", insert "*or integrated resource system*".

[812] Clause 5.3.9 Procedure to be followed by a Generator or Integrated Resource Provider proposing to alter a generating system or integrated resource system

In clause 5.3.9(a1), after "by a *Scheduled Generator*", insert ", *Scheduled Integrated Resource Provider*".

[813] Clause 5.3.9 Procedure to be followed by a Generator or Integrated Resource Provider proposing to alter a generating system or integrated resource system

In clause 5.3.9(b), after "*A Generator*", insert "*or Integrated Resource Provider*".

[814] Clause 5.3.9 Procedure to be followed by a Generator or Integrated Resource Provider proposing to alter a generating system or integrated resource system

After clause 5.3.9(b)(2), insert:

(2A) in respect of the proposed alteration to the *integrated resource system*, details of the *integrated resource unit* design data and *integrated resource unit* setting data in accordance with the *Power System Model Guidelines*, *Power System Design Data Sheet* and *Power System Setting Data Sheet*;

Note

The AEMC proposes to recommend that clause 5.3.9(b)(2A) be classified as a Tier 2 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

[815] Clause 5.3.9 Procedure to be followed by a Generator or Integrated Resource Provider proposing to alter a generating system or integrated resource system

In clause 5.3.9(b)(3), after "the *generating system*", insert "or *integrated resource system*".

[816] Clause 5.3.9 Procedure to be followed by a Generator or Integrated Resource Provider proposing to alter a generating system or integrated resource system

In clause 5.3.9(b)(4), after "the *Generator's*", insert "or *Integrated Resource Provider's*".

[817] Clause 5.3.9 Procedure to be followed by a Generator or Integrated Resource Provider proposing to alter a generating system or integrated resource system

In clause 5.3.9(c), after "a *Generator*", insert "or *Integrated Resource Provider*".

[818] Clause 5.3.9 Procedure to be followed by a Generator or Integrated Resource Provider proposing to alter a generating system or integrated resource system

In clause 5.3.9(c1), after each occasion of "*Generator*", insert "or *Integrated Resource Provider*".

[819] Clause 5.3.9 Procedure to be followed by a Generator or Integrated Resource Provider proposing to alter a generating system or integrated resource system

In clause 5.3.9(d), after "the performance of the *generating system*", insert "or *integrated resource system*".

[820] Clause 5.3.9 Procedure to be followed by a Generator or Integrated Resource Provider proposing to alter a generating system or integrated resource system

In clause 5.3.9(h), after "the *Generator*", insert "or *Integrated Resource Provider*".

[821] Clause 5.3.10 Acceptance of performance standards for generating plant that is altered

After clause 5.3.10(a), insert:

- (a1) An *Integrated Resource Provider* must not commission altered *plant* comprised in an *integrated resource system* (including *generating plant*) until the *Network Service Provider* has advised the *Integrated Resource Provider* that the provider and *AEMO* are satisfied in accordance with paragraph (b).

Note

The AEMC proposes to recommend that clause 5.3.10(a1) be classified as a Tier 1 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

[822] Clause 5.3.10 Acceptance of performance standards for generating plant that is altered

In clause 5.3.10(b)(1), after "the *Generator*", insert "or *Integrated Resource Provider*".

[823] Clause 5.3.10 Acceptance of performance standards for generating plant that is altered

In clause 5.3.10(b)(2), after "each amended *performance standard* submitted by the *Generator*", insert "or *Integrated Resource Provider*".

[824] Clause 5.3A.1 Application of rule 5.3A

In clause 5.3A.1(b), after "*embedded generating unit*", insert "or *embedded integrated resource unit*".

[825] Clause 5.3A.1 Application of rule 5.3A

In clause 5.3A.1(c)(1)(i), after "to be an *Embedded Generator*", insert "or an *Embedded Integrated Resource Provider*".

[826] Clause 5.3A.1 Application of rule 5.3A

In clause 5.3A.1(c)(1)(ii), after "as a *Generator*", insert "or *Integrated Resource Provider*".

[827] Clause 5.3A.1 Application of rule 5.3A

In clause 5.3A.1(c)(1)(ii), after "an *embedded generating unit*", insert "or *embedded integrated resource unit*".

[828] Clause 5.3A.1 Application of rule 5.3A

In the final paragraph of clause 5.3A.1(c)(1), after "in relation to any *generating systems*", insert "or *integrated resource systems*".

[829] Clause 5.3A.3 Publication of information

In clause 5.3A.3(a)(1), after "an *embedded generating unit*", insert "or *embedded integrated resource unit*".

[830] Clause 5.3A.3 Publication of information

In clause 5.3A.3(b)(1), after "for an *embedded generating unit*", insert "or *embedded integrated resource unit*".

[831] Clause 5.3A.3 Publication of information

In clause 5.3A.3(b)(1)(v), after "for an *embedded generating unit*", insert "or *embedded integrated resource unit*".

[832] Clause 5.3A.3 Publication of information

In clause 5.3A.3(b)(2), after "integration of an *embedded generating unit*", insert "or *embedded integrated resource unit*".

[833] Clause 5.3A.3 Publication of information

In clause 5.3A.3(b)(2), after "the *embedded generating unit(s)*", insert "or *embedded integrated resource unit(s)*".

[834] Clause 5.3A.3 Publication of information

In clause 5.3A.3(b)(3), after "*connection of an embedded generating unit*", insert "or *embedded integrated resource unit*".

[835] Clause 5.3A.3 Publication of information

In clause 5.3A.3(b)(4), after "*connection of embedded generating units*", insert "*or embedded integrated resource units*".

[836] Clause 5.3A.3 Publication of information

In clause 5.3A.3(b)(5), after "*applicable to embedded generating units*", insert "*, embedded integrated resource units*".

[837] Clause 5.3A.3 Publication of information

In clause 5.3A.3(b)(6)(ix), after "*integration of an embedded generating unit*", insert "*or embedded integrated resource unit*".

[838] Clause 5.3A.10 Preparation of offer to connect

In clause 5.3A.10(c), after "*connection of embedded generating units*", insert "*or embedded integrated resource units*".

[839] Clause 5.3A.12 Network support payments and functions

In clause 5.3A.12(a), after "*with an Embedded Generator*", insert "*or Embedded Integrated Resource Provider*".

[840] Clause 5.3A.12 Network support payments and functions

In clause 5.3A.12(a)(1), after "*by the Embedded Generator*", insert "*or Embedded Integrated Resource Provider*".

[841] Clause 5.3A.12 Network support payments and functions

In clause 5.3A.12(a)(2), after "*which the Embedded Generator*", insert "*or Embedded Integrated Resource Provider*".

[842] Clause 5.3A.12 Network support payments and functions

In clause 5.3A.12(b)(1), after each occasion of "*the generating unit*", insert "*or integrated resource unit*".

[843] Rule 5.3AA Access arrangements relating to Distribution Networks

At the end of rule 5.3AA(a)(1), omit "and".

[844] Rule 5.3AA Access arrangements relating to Distribution Networks

In rule 5.3AA(a)(2), after "*an Embedded Generator*", insert "*, Embedded Integrated Resource Provider*".

[845] Rule 5.3AA Network support payments and functions

In rule 5.3AA(a)(2), after "in relation to any *generating units*", insert "or *integrated resource units*".

[846] Rule 5.3AA Network support payments and functions

In rule 5.3AA(a)(2), after "group of *generating units*", insert "or *integrated resource units*".

[847] Rule 5.3AA Network support payments and functions

In rule 5.3AA(a)(2), omit "." and substitute "; and".

[848] Rule 5.3AA Network support payments and functions

After rule 5.3AA(a)(2), insert:

- (3) a reference to an *Embedded Generator* includes a reference to an *Embedded Integrated Resource Provider*, a reference to a *generating unit* includes a reference to an *integrated resource unit* and a reference to a group of *generating units* includes a reference to a group of *integrated resource units*.

[849] Rule 5.3AA Network support payments and functions

In rule 5.3AA(c)(1)(i), omit "or".

[850] Rule 5.3AA Network support payments and functions

In rule 5.3AA(f)(3), omit "use of *system services*".

[851] Rule 5.3AA Network support payments and functions

In rule 5.3AA(f)(3)(ii), omit "*negotiated use of system charges*" and substitute "*negotiated augmentation and extension charges*".

[852] Rule 5.3AA Network support payments and functions

In rule 5.3AA(g), omit "*negotiated use of system charges*" and substitute "*negotiated augmentation and extension charges*".

[853] Clause 5.6.2 Advice of inconsistencies

In clause 5.6.2(a), after "a *Generator*", insert "or *Integrated Resource Provider*".

[854] Clause 5.6.2 Advice of inconsistencies

In clause 5.6.2(b), after "a *Generator*", insert "or *Integrated Resource Provider*".

[855] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for generators

In the heading of clause 5.7.3, omit "generators" and substitute "Generators and Integrated Resource Providers".

[856] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

After clause 5.7.3(a), insert:

(a1) Each *Integrated Resource Provider* must, in accordance with the time frames specified in rule 4.15, provide evidence to any relevant *Network Service Provider* with which that *Integrated Resource Provider* has a *connection agreement* and to *AEMO*, that its *generating system* or *integrated resource system* (as applicable) complies with:

- (1) the applicable technical requirements of clause S5.2.5; and
- (2) the relevant *connection agreement* including the *performance standards*.

Note

The AEMC proposes to recommend that clause 5.7.3(a1) be classified as a Tier 3 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

[857] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

In clause 5.7.3(c), omit "clause 5.7.3(a)" and substitute "paragraph (a) or (a1)".

[858] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

In clause 5.7.3(c), after "that a *generating system*", insert "or *integrated resource system*".

[859] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

In clause 5.7.3(c), after "then the *Generator*", insert "or *Integrated Resource Provider*".

[860] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

In clause 5.7.3(d), after "that a *generating system*", insert "or *integrated resource system*".

[861] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

In clause 5.7.3(d), after "may instruct the *Generator*", insert "or *Integrated Resource Provider*".

[862] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

In clause 5.7.3(d), after "the relevant *generating system*", insert "or *integrated resource system*".

[863] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

In clause 5.7.3(e), after "the *generating system*", insert "or *integrated resource system*".

[864] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

In clause 5.7.3(e), after "the *Generator*", insert "or *Integrated Resource Provider*".

[865] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

In clause 5.7.3(f)(1)(i) after "a *generating system*", insert "or *integrated resource system*".

[866] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

In clause 5.7.3(f)(1)(ii) after "a *generating system's*", insert "or *integrated resource system's*".

[867] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

In clause 5.7.3(f)(2), after each occasion of "the *generating system*", insert "or *integrated resource system*".

[868] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

In clause 5.7.3(f), omit the last paragraph and substitute:

AEMO may:

- (3) (in the case of a *generating system*) direct the relevant *Generator* or *Integrated Resource Provider* to operate the *generating system* at a particular *generated* output or in a particular mode; or
- (4) (in the case of an *integrated resource system*) direct the relevant *Integrated Resource Provider* to operate the *integrated resource system* at a particular level of *generation* and *load*, or a particular pattern or profile of *generation* and *load*, or in a particular mode,

until the relevant *Generator* or *Integrated Resource Provider* submits evidence reasonably satisfactory to *AEMO* that the *generating system* or *integrated resource system* is complying with the relevant *performance standard* and performing substantially in accordance with the applicable analytical model.

[869] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

In clause 5.7.3(g), after "Each *Generator*", insert "and *Integrated Resource Provider*".

[870] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers

In clause 5.7.3(g), after "for each of its *generating systems*", insert ", *integrated resource systems*".

[871] Clause 5.7.6 Tests of generating units requiring changes to normal operation

Omit the heading of clause 5.7.6 and substitute:

5.7.6 Tests of generating units or integrated resource units requiring changes to normal operation

[872] Clause 5.7.6 Tests of generating units or integrated resource units requiring changes to normal operation

Omit clause 5.7.6(a) and substitute:

- (a) *A Network Service Provider may, at intervals of not less than 12 months per generating system or integrated resource system, require the testing by a Generator or Integrated Resource Provider of any generating unit or integrated resource unit connected to the network of that provider in order to determine analytic parameters for modelling purposes or to assess the performance of the relevant generating unit, generating system, integrated resource unit or integrated resource system for the purposes of a connection agreement, and that provider is entitled to witness such tests.*

[873] Clause 5.7.6 Tests of generating units or integrated resource units requiring changes to normal operation

In clause 5.7.6(b)(1), omit "*generating unit or generating system*" and substitute "*generating unit, generating system, integrated resource unit or integrated resource system*".

[874] Clause 5.7.6 Tests of generating units or integrated resource units requiring changes to normal operation

In clause 5.7.6(b)(2), omit "*generating unit or generating system*" and substitute "*generating unit, generating system, integrated resource unit or integrated resource system*".

[875] Clause 5.7.6 Tests of generating units or integrated resource units requiring changes to normal operation

In clause 5.7.6(b), after "to require a *Generator*", insert "or *Integrated Resource Provider*".

[876] Clause 5.7.6 Tests of generating units or integrated resource units requiring changes to normal operation

In clause 5.7.6(c), after "to the *Generator*", insert "or *Integrated Resource Provider*".

[877] Clause 5.7.6 Tests of generating units or integrated resource units requiring changes to normal operation

In clause 5.7.6(e), after "a *Generator*", insert "or *Integrated Resource Provider*".

[878] Clause 5.7.6 Tests of generating units or integrated resource units requiring changes to normal operation

In clause 5.7.6(e), after "the relevant *generating unit*", insert "or *integrated resource unit*".

[879] Clause 5.7.6 Tests of generating units or integrated resource units requiring changes to normal operation

In clause 5.7.6(f), after "a *Generator*", insert "or *Integrated Resource Provider*".

[880] Clause 5.7.6 Tests of generating units or integrated resource units requiring changes to normal operation

In clause 5.7.6(f1), after "a *Generator*", insert "or *Integrated Resource Provider*".

[881] Clause 5.7.6 Tests of generating units or integrated resource units requiring changes to normal operation

In clause 5.7.6(g), after each occasion of "*Generator*", insert "or *Integrated Resource Provider*".

[882] Clause 5.7.6 Tests of generating units or integrated resource units requiring changes to normal operation

In clause 5.7.6(h), after each occasion of "*Generator*", insert "or *Integrated Resource Provider*".

[883] Clause 5.7.6 Tests of generating units or integrated resource units requiring changes to normal operation

In clause 5.7.6(i), after "The *Generator*", insert "or *Integrated Resource Provider*".

[884] Clause 5.7.7 Inter-network power system tests

In clause 5.7.7(a) table, row 3, in column 1, after "A new *generating unit*", insert "or *integrated resource unit*".

[885] Clause 5.7.7 Inter-network power system tests

In clause 5.7.7(a) table, row 3, in column 2, omit "*Generator* in respect of the *generating unit*" and substitute "*Generator or Integrated Resource Provider* in respect of the *generating unit* or *integrated resource unit*".

[886] Clause 5.7.7 Inter-network power system tests

In clause 5.7.7(a) table, row 3, in column 3, after "to which the *generating unit*", insert ", *integrated resource unit*".

[887] Clause 5.7.7 Inter-network power system tests

In clause 5.7.7(a) table, row 4, in column 1, after "as a result of a *generating unit*", insert ", *integrated resource unit*".

[888] Clause 5.7.7 Inter-network power system tests

In clause 5.7.7(a) table, row 4, in column 2, after "*Generator*", insert "or *Integrated Resource Provider*".

[889] Clause 5.7.7 Inter-network power system tests

In clause 5.7.7(a) table, row 4, in column 2, after the first paragraph, insert a new paragraph "*Integrated Resource Provider* in respect of the *integrated resource unit*".

[890] Clause 5.7.7 Inter-network power system tests

In clause 5.7.7(a) table, row 4, in column 3, after "to which the *generating unit*", insert "*integrated resource unit*".

[891] Clause 5.7.7 Inter-network power system tests

In clause 5.7.7(d), omit "*scheduled generating unit, a semi-scheduled generating unit, a scheduled load or a market network service*" and substitute "*scheduled resource (other than a wholesale demand response unit)*".

[892] Clause 5.7.7 Inter-network power system tests

In clause 5.7.7(e), after "*generating unit*", insert ", *integrated resource unit*".

[893] Clause 5.9.3 Involuntary disconnection

In clause 5.9.3(a), omit "*market loads*" and substitute "*loads at its market connection points*".

[894] Clause 5.9.3 Involuntary disconnection

In clause 5.9.3(d), omit "*market loads*" and substitute "*loads at its market connection points*".

[895] Clause 5.9.4A Notification of disconnection

In clause 5.9.4A, omit "*market loads*" and substitute "*loads at its market connection points*".

[896] Clause 5.10.1 Content of Part D

In clause 5.10.1(j1), after "a register of large generator", insert "and integrated resource".

[897] Clause 5.11.1 Forecasts for connection to transmission network

In clause 5.11.1(b), omit "*generating units, market network services and loads*" and substitute "*sources of generation or load*".

[898] Clause 5.13.1 Distribution annual planning review

In clause 5.13.1(d)(1)(vi), after "*embedded generating units*", insert "or *embedded integrated resource units*".

[899] Clause 5.15A.2 Principles for RIT-T projects which are not actionable ISP projects

In clause 5.15A.2(b)(9), after "benefit to *Generators*", insert ", *Integrated Resource Providers*".

[900] Clause 5.17.1 Principles

In clause 5.17.1(c)(4)(v), after "the capacity of *Embedded Generators*", insert "or *Embedded Integrated Resource Providers*".

[901] Clause 5.17.1 Principles

In clause 5.17.1(c)(8), after "in their capacity as *Generators*", insert ", *Integrated Resource Providers*".

[902] Rule 5.18A Large generator connections

In the heading of rule 5.18A, after "**Large generator**", insert "**and integrated resource**".

[903] Clause 5.18A.1 Definitions

In clause 5.18A.1(a), in the definition of "**assessment date**", omit all references to "large generator connection" and substitute "large connection".

[904] Clause 5.18A.1 Definitions

In clause 5.18A.1(a), in the definition of "**commissioning date**", omit all references to "large generator connection" and substitute "large connection".

[905] Clause 5.18A.1 Definitions

In clause 5.18A.1(a), insert the following definitions in alphabetical order:

large connection means a large generator connection or a large integrated resource connection.

large integrated resource connection means *integrated resource units* that:

- (1) have a *nameplate rating* of 5MW or greater; or
- (2) are part of a group of *integrated resource units connected* at a common *connection point* with a combined *nameplate rating* of 5 MW or greater,

which are owned, operated or controlled by an *Integrated Resource Provider* and are connected to the *Transmission Network Service Provider's network*.

[906] Clause 5.18A.1 Definitions

In clause 5.18A.1, omit the definition of "**large generator connection**" and substitute:

large generator connection means *generating units* that:

- (1) have a *nameplate rating* of 30MW or greater; or
- (2) are part of a group of *generating units* connected at a common *connection point* with a combined *nameplate rating* of 30 MW or greater,

which are owned, operated or controlled by a *Generator* or *Integrated Resource Provider* and are *connected* to the *Transmission Network Service Provider's network*.

[907] Clause 5.18A.2 Register of large generator connections

In the heading of clause 5.18A.2, after "**large generator**", insert "**and integrated resource**".

[908] Clause 5.18A.2 Register of large generator and integrated resource connections

In clause 5.18A.2(a), omit "large generator connections" and substitute "large connections".

[909] Clause 5.18A.2 Register of large generator and integrated resource connections

In clause 5.18A.2(a), omit "large generator connection" and substitute "large connection".

[910] Clause 5.18A.2 Register of large generator and integrated resource connections

In clause 5.18A.2(a)(1), omit "large generator connection" and substitute "large connection".

[911] Clause 5.18A.2 Register of large generator and integrated resource connections

In clause 5.18A.2(a)(2), omit "in respect of the large generator connection" and substitute "or *Integrated Resource Provider* in respect of the large connection".

[912] Clause 5.18A.2 Register of large generator and integrated resource connections

In clause 5.18A.2(a)(3), after "*generating units*", insert "or *integrated resource units*".

[913] Clause 5.18A.2 Register of large generator and integrated resource connections

In clause 5.18A.2(a)(4), omit "comprised in the large generator connection" and substitute "or *integrated resource units* comprised in the large connection".

[914] Clause 5.18A.2 Register of large generator and integrated resource connections

In clause 5.18A.2(a)(5), omit "in respect of the large generator connection" and substitute "or *Integrated Resource Provider* in respect of the large connection".

[915] Clause 5.18A.2 Register of large generator and integrated resource connections

In clause 5.18A.2(a)(6), omit "large generator connection" and substitute "large connection".

[916] Clause 5.18A.2 Register of large generator and integrated resource connections

In clause 5.18A.2(c)(1), omit "large generator connections" and substitute "large connections".

[917] Clause 5.18A.2 Register of large generator and integrated resource connections

In clause 5.18A.2(c)(2)(i), omit "large generator connections" and substitute "large connections".

[918] Clause 5.18A.2 Register of large generator and integrated resource connections

In clause 5.18A.2(c)(2)(ii), omit "large generator connections" and substitute "large connections".

[919] Clause 5.18A.3 Impact assessment of large generator connections

In the heading of clause 5.18A.3, omit "large generator connections" and substitute "large connections".

[920] Clause 5.18A.3 Impact assessment of large connections

In clause 5.18A.3(a), omit all references to "large generator connection" and substitute "large connection".

[921] Clause 5.18A.3 Impact assessment of large connections

In clause 5.18A.3(c), omit all references to "large generator connection" and substitute "large connection".

[922] Clause 5.18A.3 Impact assessment of large connections

In clause 5.18A.3(d), omit "large generator connection" and substitute "large connection".

[923] Clause 5.18B.1 Definitions

In clause 5.18B.1(a), omit the definition "**completed embedded generation projects**" in its entirety and substitute:

completed embedded generating unit projects means all *embedded generating units* owned, operated or controlled by:

- (1) a *Generator* or *Integrated Resource Provider*; or
- (2) a person who was required to apply to *AEMO* for an exemption from the requirement to register as a *Generator* or *Integrated Resource Provider* in respect of an *embedded generating unit*,

and are connected to the *Distributor Network Service Provider's network*.

[924] Clause 5.18B.1 Definitions

In clause 5.18B.1(a), insert the following definitions in alphabetical order:

completed embedded generation projects means completed embedded generating unit projects and completed embedded integrated resource unit projects.

completed embedded integrated resource unit projects means all *embedded integrated resource units* owned, operated or controlled by:

- (1) an *Integrated Resource Provider*; or
- (2) a person who was required to apply to *AEMO* for an exemption from the requirement to register as an *Integrated Resource Provider* in respect of an *embedded integrated resource unit*,
and are connected to the *Distributor Network Service Provider's network*.

[925] Clause 5.18B.2 Register of completed embedded generation projects

In clause 5.18B.2(a)(1), after "technology of *generating unit*", insert "or *integrated resource unit*".

[926] Clause 5.18B.2 Register of completed embedded generation projects

In clause 5.18B.2(a)(2), after "*embedded generating units*", insert "or *embedded integrated resource units*".

[927] Clause 5.18B.2 Register of completed embedded generation projects

In clause 5.18B.2(a)(2), after "relevant *generating system*", insert "or *integrated resource system*".

[928] Clause 5.19.1 Definitions

In clause 5.19.1, in the definition of "**forecast generation scenarios**", after "future connections of *generating systems*", insert "and *integrated resource systems*".

[929] Clause 5.19.1 Definitions

In clause 5.19.1, in the definition of "**Scale Efficient Network Extension**", after "two or more *generating systems*", insert "or *integrated resource systems*".

[930] Clause 5.19.1 Definitions

In clause 5.19.1, in the definition of "SENE Design and Costing Study", after "cost of forecast *connections of generating systems*", insert "and *integrated resource systems*".

[931] Clause 5.19.4 Content of SENE Design and Costing Study

In clause 5.19.4(a), after each occasion of "*generating systems*", insert "and *integrated resource systems*".

[932] Clause 5.19.4 Content of SENE Design and Costing Study

In clause 5.19.4(b)(2), after "the point at which *generating systems*", insert "or *integrated resource systems*".

[933] Clause 5.19.4 Content of SENE Design and Costing Study

In clause 5.19.4(b)(7)(i), after "*connections of generating systems*", insert "and *integrated resource systems*".

[934] Clause 5.19.4 Content of SENE Design and Costing Study

In clause 5.19.4(b)(7)(ii), after "*connections of generating systems*", insert "and *integrated resource systems*".

[935] Clause 5.20.6 Publication of system strength requirements methodologies

In clause 5.20.6(e)(4), after "*load shedding or generating system*", insert ", *integrated resource system*".

[936] Clause 5.20.6 Publication of system strength requirements methodologies

In clause 5.20.6(e)(5), after "a *synchronous generating unit*", insert ", *synchronous integrated resource unit*".

[937] Clause 5.20B.4 Inertia Service Provider to make available inertia services

In clause 5.20B.4(d)(2), after "a *synchronous generating unit*", insert ", *synchronous integrated resource unit*".

[938] Clause 5.20B.5 Inertia support activities

In clause 5.20B.5(a)(3), in the "Note", after "with *Generators*", insert "or *Integrated Resource Providers*".

[939] Clause 5.20B.5 Inertia support activities

In clause 5.20B.5(a)(3), in the "Note", after "operation of their *generating units*", insert "or *integrated resource units*".

[940] Clause 5.20B.6 Inertia network services information and approvals

In clause 5.20B.6(b), after "from a *Generator*", insert "or *Integrated Resource Provider*".

[941] Clause 5.20B.6 Inertia network services information and approvals

In clause 5.20B.6(b), omit "*inertia generating unit*" and substitute "*inertia unit*".

[942] Clause 5.20B.6 Inertia network services information and approvals

After clause 5.20B.6(b), insert:

- (b1) Where the *Inertia Service Provider* procures *inertia network services* from an *Integrated Resource Provider* provided by means of an *integrated resource unit* under an *inertia services agreement*, the *Inertia Service Provider* must register the *integrated resource unit* with AEMO as an *inertia unit* and specify that the *integrated resource unit* may be periodically used to provide *inertia network services* and will not be eligible to set *spot prices* when *constrained on* to provide *inertia* in accordance with clause 3.9.7(c).

Note

The AEMC proposes to recommend that clause 5.20B.6(b1) be classified as a Tier 2 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

[943] Clause 5.20B.6 Inertia network services information and approvals

In clause 5.20B.6(c)(1)(ii), omit "*generating unit*" and substitute "*inertia unit*".

[944] Clause 5.20C.4 System strength services information and approvals

In clause 5.20C.4(b), after "from a *Generator*", insert "or *Integrated Resource Provider*".

[945] Clause 5.20C.4 System strength services information and approvals

In clause 5.20C.4(b), omit "*system strength generating unit*" and substitute "*system strength unit*".

[946] Clause 5.20C.4 System strength services information and approvals

After clause 5.20C.4(b), insert:

- (b1) Where the *System Strength Service Provider* procures *system strength services* from an *Integrated Resource Provider* provided by means of an *integrated resource unit* under a *system strength services agreement*, the *System Strength Service Provider* must register the *integrated resource unit* with AEMO as a *system strength unit* and specify that the *integrated resource unit* may be periodically used to provide *system strength services* and will not be eligible to set *spot prices* when *constrained on* to provide *system strength services* in accordance with clause 3.9.7(c).

Note

The AEMC proposes to recommend that clause 5.20C.4(b1) be classified as a Tier 2 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

[947] Clause 5.20C.4 System strength services information and approvals

In clause 5.20C.4(c)(1)(ii), omit "*generating unit*" and substitute "*system strength unit*".

[948] Clause S5.1.2.1 Credible contingency events

In clause S5.1.2.1, after "the transfer of power from *generating units*", insert "and *integrated resource units*".

[949] Clause S5.1.2.1 Credible contingency events

In clause S5.1.2.1(a), after "of any single *generating unit*", insert ", *integrated resource unit*".

[950] Clause S5.1.2.2 Network service within a region

In clause S5.1.2.2, after "the grouping of *generating units*", insert "and *integrated resource units*".

[951] Clause S5.1.7 Voltage unbalance

In clause S5.1.7(c), after "that each *Generator*", insert "and *Integrated Resource Provider*".

[952] Clause S5.1.7 Voltage unbalance

In clause S5.1.7(c)(1), after "its *generating system*", insert "or *integrated resource system*".

[953] Clause S5.1.7 Voltage unbalance

In clause S5.1.7(c), in the last paragraph, after "each of the *generating system*", insert "or *integrated resource system*".

[954] Clause S5.1.10.1a Emergency frequency control schemes

Omit clause S5.1.10.1a(d)(1) and substitute:

- (1) A *Network Service Provider* must identify which elements of the scheme (if any) can be implemented by *facilities* provided by a *Generator* or *Integrated Resource Provider* for the person's *generating unit* or *integrated resource unit* or by modification to the *facilities* of the *Generator* or *Integrated Resource Provider* or by changes to the settings of *protection systems* or *control systems* for the person's *generating units* or *integrated resource units*.

[955] Clause S5.1.10.1a Emergency frequency control schemes

In clause S5.1.10.1a(d)(2), after "must notify the *Generator*", insert "or *Integrated Resource Provider*".

[956] Clause S5.1.10.1a Emergency frequency control schemes

In clause S5.1.10.1a(d)(2), omit "must request the *Generator*" and substitute "must request the person".

[957] Clause S5.1.10.1a Emergency frequency control schemes

In clause S5.1.10.1a(d)(3), after each occasion of "the *Generator*", insert "or *Integrated Resource Provider*".

[958] Clause S5.1.10.1a Emergency frequency control schemes

In clause S5.1.10.1a(d)(4), after each occasion of "the *Generator*", insert "or *Integrated Resource Provider*".

[959] Schedule 5.2 Conditions for Connection of Generators

In the heading of schedule 5.2, after "Connection of Generators", insert "and **Integrated Resource Providers**".

[960] Clause S5.2.1 Outline of requirements

In clause S5.2.1(a), after "that *Generators*", insert "and *Integrated Resource Providers*".

[961] Clause S5.2.1 Outline of requirements

In clause S5.2.1(a), after "*connection of a generating system*", insert "*or integrated resource system*".

[962] Clause S5.2.1 Outline of requirements

In clause S5.2.1(b), after "*any generating system*", insert "*or integrated resource system*".

[963] Clause S5.2.1 Outline of requirements

In clause S5.2.1(b)(1), omit "clause 2.2.1(c)" and substitute "clause 2.1A.2".

[964] Clause S5.2.1 Outline of requirements

In clause S5.2.1(b)(2), omit "clause 2.2.1(c)" and substitute "clause 2.1A.2".

[965] Clause S5.2.1 Outline of requirements

In clause S5.2.1(c), after "*obligations on Generators*", insert "*and Integrated Resource Providers*".

[966] Clause S5.2.1 Outline of requirements

In clause S5.2.1(d), after "*with each generating system*", insert "*or integrated resource system*".

[967] Clause S5.2.1 Outline of requirements

In clause S5.2.1(e), after "*Generators*", insert "*and Integrated Resource Providers*".

[968] Clause S5.2.1 Outline of requirements

In clause S5.2.1(f), after "*by which a Generator*", insert "*or Integrated Resource Provider*".

[969] Clause S5.2.2 Application of Settings

In clause S5.2.2, in the first paragraph, after each occasion of "*A Generator*", insert "*or Integrated Resource Provider*".

[970] Clause S5.2.2 Application of Settings

In clause S5.2.2, in the first paragraph, after "*must not allow its generating unit*", insert "*or integrated resource unit*".

[971] Clause S5.2.2 Application of Settings

In clause S5.2.2, in the second paragraph, after each occasion of "*Generator*", insert "*or Integrated Resource Provider*".

[972] Clause S5.2.2 Application of Settings

In clause S5.2.2, in the second paragraph, after "would cause the *generating unit*", insert "or *integrated resource unit*".

[973] Clause S5.2.2 Application of Settings

In clause S5.2.2, in the third paragraph, after "setting of a *generating unit's*", insert "or *integrated resource unit's*".

[974] Clause S5.2.2 Application of Settings

In clause S5.2.2, in the third paragraph, after "with the relevant *Generator*", insert "or *Integrated Resource Provider*".

[975] Clause S5.2.2 Application of Settings

In clause S5.2.2, in the fourth paragraph, after "its request to a *Generator*", insert "or *Integrated Resource Provider*".

[976] Clause S5.2.2 Application of Settings

In clause S5.2.2, in the fifth paragraph, after each occasion of "*Generator*", insert "or *Integrated Resource Provider*".

[977] Clause S5.2.2 Application of Settings

In clause S5.2.2, in the last paragraph, after each occasion of "*Generator*", insert "or *Integrated Resource Provider*".

[978] Clause S5.2.3 Technical matters to be coordinated

In clause S5.2.3(a), after "A *Generator*", insert "or *Integrated Resource Provider*".

[979] Clause S5.2.3 Technical matters to be coordinated

In clause S5.2.3(a), after "*connection of a generating system*", insert "or *integrated resource system*".

[980] Clause S5.2.3 Technical matters to be coordinated

In clause S5.2.3(b), after "A *Generator*", insert "or *Integrated Resource Provider*".

[981] Clause S5.2.3 Technical matters to be coordinated

In clause S5.2.3(b), after "in designing a *generating system's*", insert "or *integrated resource system's*".

[982] Clause S5.2.3 Technical matters to be coordinated

In clause S5.2.3(b), after "the *connection* of the *generating system*", insert "or *integrated resource system*".

[983] Clause S5.2.3 Technical matters to be coordinated

In clause S5.2.3(b)(4), after "to which the *generating system*", insert "or *integrated resource system*".

[984] Clause S5.2.3 Technical matters to be coordinated

In clause S5.2.3(b)(5), after "in which the *generating system*", insert "or *integrated resource system*".

[985] Clause S5.2.3 Technical matters to be coordinated

In clause S5.2.3(c), after each occasion of "the *Generator*", insert "or *Integrated Resource Provider*".

[986] Clause S5.2.4 Provision of information

In clause S5.2.4(a), after "A *Generator*", insert ", *Integrated Resource Provider*".

[987] Clause S5.2.4 Provision of information

In clause S5.2.4(a), after "to that *generating system*", insert "or *integrated resource system*".

[988] Clause S5.2.4 Provision of information

In clause S5.2.4(b), after "A *Generator*", insert "*Integrated Resource Provider*".

[989] Clause S5.2.4 Provision of information

In clause S5.2.4(b), after "to register as the *Generator*", insert "or *Integrated Resource Provider*".

[990] Clause S5.2.4 Provision of information

In clause S5.2.4(b), after "30MW or more", insert ", or an *integrated resource system* comprised of *plant* with a combined *nameplate rating* of 5 MW or more for either consumption or output".

[991] Clause S5.2.4 Provision of information

In clause S5.2.4(b)(3), after each occasion of "a *generating system*", insert "or *integrated resource system*".

[992] Clause S5.2.4 Provision of information

In clause S5.2.4(b)(4), after "commissioning of a *generating system*", insert "or *integrated resource system*".

[993] Clause S5.2.4 Provision of information

In clause S5.2.4(b)(5), after "in respect of an *embedded generating unit*", insert "or *embedded integrated resource unit*".

[994] Clause S5.2.4 Provision of information

In clause S5.2.4(b)(5)(i), after "the *protections systems* of the *generating system*", insert "or *integrated resource system*".

[995] Clause S5.2.4 Provision of information

In clause S5.2.4(b)(5)(ii), after "*control systems* of the *generating system*", insert "or *integrated resource system*".

[996] Clause S5.2.4 Provision of information

In clause S5.2.4(b)(5)(ii)(A), omit "generating system output" and substitute "*generating system* output or *integrated resource system* output or consumption".

[997] Clause S5.2.4 Provision of information

In clause S5.2.4(b)(8), after "in respect of an *embedded generating unit*", insert "or *embedded integrated resource unit*".

[998] Clause S5.2.4 Provision of information

In clause S5.2.4(c)(1), after "integral to the *generating units*", insert "or *integrated resource units*".

[999] Clause S5.2.4 Provision of information

In clause S5.2.4(c)(1), after each occasion of "part of the *generating system*", insert "or *integrated resource system*".

[1000] Clause S5.2.4 Provision of information

In clause S5.2.4(c)(2), omit "*generating plant*" and substitute "relevant *plant*".

[1001] Clause S5.2.4 Provision of information

In clause S5.2.4(d), after "The *Generator*", insert "or *Integrated Resource Provider*".

[1002] Clause S5.2.4 Provision of information

In clause S5.2.4(d), omit "clause S5.2.4(b)" and substitute "paragraph (b)".

[1003] Clause S5.2.4 Provision of information

In clause S5.2.4(d), omit "clause S5.2.4(b)(5)" and substitute "subparagraph (b)(5)".

[1004] Clause S5.2.4 Provision of information

In clause S5.2.4(d)(2), after "when the *Generator*", insert "or *Integrated Resource Provider*".

[1005] Clause S5.2.4 Provision of information

In clause S5.2.4(d1), after "A *Generator*", insert "or *Integrated Resource Provider*".

[1006] Clause S5.2.4 Provision of information

In clause S5.2.4(e1), after "proposed *connection* for a *generating system*", insert "or *integrated resource system*".

[1007] Clause S5.2.4 Provision of information

In clause S5.2.4(e1)(1), after "the *generating system*", insert "or *integrated resource system*".

[1008] Clause S5.2.4 Provision of information

In clause S5.2.4(e1)(3), after "the *generating system*", insert "or *integrated resource system*".

[1009] Clause S5.2.4 Provision of information

In clause S5.2.4(e1)(4), after each occasion of "*generating system*", insert "or *integrated resource system*".

[1010] Clause S5.2.4 Provision of information

In clause S5.2.4(e)(6), after each occasion of "*generating system*", insert "or *integrated resource system*".

[1011] Clause S5.2.5.1 Reactive power capability

In clause S5.2.5.1(a), after each occasion of "*generating system*", insert "or *integrated resource system*".

[1012] Clause S5.2.5.1 Reactive power capability

In clause S5.2.5.1(a)(1), omit "output".

[1013] Clause S5.2.5.1 Reactive power capability

In clause S5.2.5.1(c), after "the *Generator*", insert "or *Integrated Resource Provider*".

[1014] Clause S5.2.5.1 Reactive power capability

In clause S5.2.5.1(c)(1), after "the *reactive power capability* of the *generating system*", insert "or *integrated resource system*".

[1015] Clause S5.2.5.1 Reactive power capability

In clause S5.2.5.1(c)(3), omit "output" and substitute "level".

[1016] Clause S5.2.5.1 Reactive power capability

In clause S5.2.5.1(d), after "If the *generating system*", insert "or *integrated resource system*".

[1017] Clause S5.2.5.1 Reactive power capability

In clause S5.2.5.1(d), after "the *Generator*", insert "or *Integrated Resource Provider*".

[1018] Clause S5.2.5.1 Reactive power capability

In clause S5.2.5.1(d)(2), after "*connecting* at the *generating system's*", insert "or *integrated resource system's*".

[1019] Clause S5.2.5.1 Reactive power capability

In clause S5.2.5.1(d)(2), after "is deemed to be part of the *generating system*", insert "or *integrated resource system*".

[1020] Clause S5.2.5.1 Reactive power capability

In clause S5.2.5.1(e), after "The *Generator*", insert "or *Integrated Resource Provider*".

[1021] Clause S5.2.5.1 Reactive power capability

In clause S5.2.5.1(f), after "the agreed value for *rated active power*", insert "and (for an *integrated resource system*) *rated maximum demand*".

[1022] Clause S5.2.5.1 Reactive power capability

In clause S5.2.5.1(g), after "*energy* by a *generating system*", insert "or *integrated resource system* in respect of *auxiliary load*".

[1023] Clause S5.2.5.1 Reactive power capability

In clause S5.2.5.1(g), after "as if the *Generator*", insert "or *Integrated Resource Provider*".

[1024] Clause S5.2.5.2 Quality of electricity generated

In clause S5.2.5.2(a), after "in respect of a *synchronous generating unit*", insert "or *synchronous integrated resource unit*".

[1025] Clause S5.2.5.2 Quality of electricity generated

In clause S5.2.5.2(b), omit "when generating and when not generating" and substitute "or *integrated resource system* at all times when *connected*".

[1026] Clause S5.2.5.2 Quality of electricity generated

In clause S5.2.5.2(b), omit "for *generation*".

[1027] Clause S5.2.5.2 Quality of electricity generated

In clause S5.2.5.2(c), omit "when generating and when not generating" and substitute "or *integrated resource system* at all times when *connected*".

[1028] Clause S5.2.5.2 Quality of electricity generated

In clause S5.2.5.2(c), omit "for *generation*".

[1029] Clause S5.2.5.3 Generating system response to frequency disturbances

In the heading of clause S5.2.5.3, after "Generating system", insert "or *integrated resource system*".

[1030] Clause S5.2.5.3 Generating system or integrated resource system response to frequency disturbances

In clause S5.2.5.3(a), in the definition of "normal operating frequency band, operational frequency tolerance band, or extreme frequency excursion tolerance limits", after "the *generating unit*", insert "or *integrated resource unit*".

[1031] Clause S5.2.5.3 Generating system or integrated resource system response to frequency disturbances

In clause S5.2.5.3(a), in the definition of "stabilisation time and recovery time", after "the *generating unit*", insert "or *integrated resource unit*".

[1032] Clause S5.2.5.3 Generating system or integrated resource system response to frequency disturbances

In clause S5.2.5.3(b), after "The *automatic access standard* is a *generating system*", insert "or *integrated resource system*".

[1033] Clause S5.2.5.3 Generating system or integrated resource system response to frequency disturbances

In clause S5.2.5.3(b), after "each of its *generating units*", insert "and *integrated resource units*".

[1034] Clause S5.2.5.3 Generating system or integrated resource system response to frequency disturbances

In clause S5.2.5.3(c), after "The *minimum access standard* is a *generating system*", insert "or *integrated resource system*".

[1035] Clause S5.2.5.3 Generating system or integrated resource system response to frequency disturbances

In clause S5.2.5.3(c), after "and each of its *generating units*", insert "and *integrated resource units*".

[1036] Clause S5.2.5.3 Generating system or integrated resource system response to frequency disturbances

In clause S5.2.5.3(c)(3), after "any time spent in the ranges under subparagraphs (1) and (2)", insert "unless (for an *integrated resource system*) it has a *protection system* to trip consumption by an *integrated resource unit* if the *frequency* falls below a level agreed with *AEMO*".

[1037] Clause S5.2.5.3 Generating system or integrated resource system response to frequency disturbances

In clause S5.2.5.3(c)(5), omit "(the *generating system*)" and substitute "(for a *generating system*) it".

[1038] Clause S5.2.5.3 Generating system or integrated resource system response to frequency disturbances

In clause S5.2.5.3(c)(5), after "exceeds a level agreed with *AEMO*", insert "or (for an *integrated resource system*) it has a *protection system* to trip generation from an *integrated resource unit* if the *frequency* exceeds a level agreed with *AEMO*".

[1039] Clause S5.2.5.3 Generating system or integrated resource system response to frequency disturbances

In clause S5.2.5.3(c)(6), after "in respect of a *generating system*", insert "or *integrated resource system*".

[1040] Clause S5.2.5.3 Generating system or integrated resource system response to frequency disturbances

Omit clause S5.2.5.3(c)(6)(i) and substitute:

- (i) of 30 MW or more (in the case of a *generating system*) or 5 MW or more (in the case of an *integrated resource system*); and

[1041] Clause S5.2.5.3 Generating system or integrated resource system response to frequency disturbances

Omit clause S5.2.5.3(c)(6)(ii) and substitute:

- (ii) that does not have a *protection system* to trip the *generating unit* or *integrated resource unit* if the *frequency* exceeds a level agreed with *AEMO* under subparagraph (5),

[1042] Clause S5.2.5.3 Generating system or integrated resource system response to frequency disturbances

In clause S5.2.5.3(d), omit "*frequency tolerance band as a result of over-frequency tripping of generating units*" and substitute "frequency tolerance band as a result of over-frequency tripping of *generating units* or *integrated resource units* or rise above the upper bound of the operational frequency tolerance band as a result of under-frequency tripping of *integrated resource units*".

[1043] Clause S5.2.5.4 Generating system response to voltage disturbances

In the heading of clause S5.2.5.4, after "**Generating system**", insert "**or integrated resource system**".

[1044] Clause S5.2.5.4 Generating system or integrated resource system response to voltage disturbances

In clause S5.2.5.4(a), after "The *automatic access standard* is a *generating system*", insert "or *integrated resource system*".

[1045] Clause S5.2.5.4 Generating system or integrated resource system response to voltage disturbances

In clause S5.2.5.4(a), after "and each of its *generating units*", insert "and *integrated resource units*".

[1046] Clause S5.2.5.4 Generating system or integrated resource system response to voltage disturbances

In clause S5.2.5.4(b), after "The *minimum access standard* is a *generating system*", insert "or *integrated resource system*".

[1047] Clause S5.2.5.4 Generating system or integrated resource system response to voltage disturbances

In clause S5.2.5.4(b), after "including all operating *generating units*", insert "and operating *integrated resource units*".

[1048] Clause S5.2.5.4 Generating system or integrated resource system response to voltage disturbances

Omit clause S5.2.5.4(c) and substitute:

- (c) In negotiating a *negotiated access standard*, a *generating system* or *integrated resource system* and each of its operating *generating units* and operating *integrated resource units* must be capable of *continuous uninterrupted operation* for the range of *voltages* specified in the *automatic access standard*, except where *AEMO* and the *Network Service Provider* agree that the total change in the level of *active power* reduction of *generation* in the *power system* as a result of any *voltage* excursion within levels specified by the *automatic access standard* would not exceed 100 MW, or a greater limit based on what *AEMO* and the *Network Service Provider* both consider to be reasonable in the circumstances.

[1049] Clause S5.2.5.4 Generating system or integrated resource system response to voltage disturbances

In clause S5.2.5.4(f), after "ensure the *generating system*", insert "or *integrated resource system*".

[1050] Clause S5.2.5.4 Generating system or integrated resource system response to voltage disturbances

In clause S5.2.5.4(f), after "and each of its *generating units*", insert "and *integrated resource units*".

[1051] Clause S5.2.5.4 Generating system or integrated resource system response to voltage disturbances

In clause S5.2.5.4(f), omit "or *generating system conditions*" and substitute ", *generating system or integrated resource system conditions*".

[1052] Clause S5.2.5.5 Generating system response to disturbances following contingency events

Omit the heading of clause S5.2.5.5 and substitute:

S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

[1053] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(b)(1), after "for a *generating system*", insert "or *integrated resource system*".

[1054] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(b)(1), after "each of its *generating units*", insert "or *integrated resource units*".

[1055] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(b)(2), after "solely of *synchronous generating units*", insert ", "or an *integrated resource system* comprised solely of *synchronous integrated resource units* and (where applicable) *synchronous generating units*".

[1056] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(b)(3), after "solely of *asynchronous generating units*", insert "or an *integrated resource system* comprised solely of *asynchronous integrated resource units* and (where applicable) *asynchronous generating units*".

[1057] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

Omit clause S5.2.5.5(b)(4) and substitute:

- (4) for a *generating system* or *integrated resource system* comprised of *synchronous generating units* or *synchronous integrated resource units* and *asynchronous generating units* or *asynchronous integrated resource units*:
 - (i) for that part of the *generating system* or *integrated resource system* comprised of *synchronous generating units* or *synchronous integrated resource units*, the requirements of paragraph (e); and
 - (ii) for that part of the *generating system* or *integrated resource system* comprised of *asynchronous generating units* or *asynchronous integrated resource units*, the requirements of paragraphs (f) to (i).

[1058] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5, before paragraph (c), omit the subheading and substitute:

All generating systems and integrated resource systems

[1059] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(c), omit "A *generating system* and each of its *generating units*" and substitute "A *generating system* or *integrated resource system* and each of its *generating units* and *integrated resource units*".

[1060] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(c), in the last paragraph, after "that would *disconnect* the *generating unit*", insert "or *integrated resource unit*".

[1061] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(d), omit "A *generating system* and each of its *generating units*" and substitute "A *generating system* or *integrated resource system* and each of its *generating units* or *integrated resource units*".

[1062] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(d)(7), after "the *islanding* of the *generating system*", insert "or *integrated resource system*".

[1063] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5, omit the subheading before paragraph (e) and substitute:

Synchronous generating systems and synchronous integrated resource systems

[1064] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(e), omit "reasonable control, a *generating system* comprised of *synchronous generating units*" and substitute "or *Integrated Resource Provider's* reasonable control, a *generating system* comprised of *synchronous generating units* or an *integrated resource system* comprised of *synchronous integrated resource units* and (where applicable) *synchronous generating units*".

[1065] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(e)(1), omit "the *generating system* including all operating *synchronous generating units*" and substitute "the *generating system* or *integrated resource system* including all operating *synchronous generating units* and *synchronous integrated resource units*".

[1066] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5, before paragraph (f), omit the subheading and substitute:

Asynchronous generating systems and synchronous integrated resource systems

[1067] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(f), after "availability beyond the *Generator's*", insert "or *Integrated Resource Provider's*".

[1068] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(f), after "a *generating system* comprised of *asynchronous generating units*", insert "or an *integrated resource system* comprised of *synchronous integrated resource units* and (where applicable) *synchronous generating units*".

[1069] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(f)(1)(i), after "maximum continuous current of the *generating system*", insert "or *integrated resource system*".

[1070] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(f)(1)(i), after "including all operating *asynchronous generating units*", insert "and all operating *asynchronous integrated resource units*".

[1071] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(f)(1)(ii), after "maximum continuous current of the *generating system*", insert "or *integrated resource system*".

[1072] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(f)(1)(ii), after "including all operating *asynchronous generating units*", insert "and all operating *asynchronous integrated resource units*".

[1073] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(g)(1), after "the *generating system*", insert "or *integrated resource system*".

[1074] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(h), after "Despite paragraph (f), a *generating system*", insert "or *integrated resource system*".

[1075] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(h)(1), after "the *generating system*", insert "or *integrated resource system*".

[1076] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(i), after "energy source availability, a *generating system*", and insert "and *integrated resource system*".

[1077] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(i)(1), after "apparent power of the *generating system*", insert "or *integrated resource system*".

[1078] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(i)(1), after "including all operating *generating units*", insert "and all operating *integrated resource units*".

[1079] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(i)(2), after "the maximum continuous current of the *generating system*", insert "or *integrated resource system*".

[1080] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(i)(2), after "including all operating *generating units*", insert "and all operating *integrated resource units*".

[1081] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

Omit clause S5.2.5.5(j)(1) and substitute:

- (1) for a *generating system* or *integrated resource system* and each of its *generating units* and *integrated resource units*, the requirements of paragraphs (k) and (l);

[1082] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(j)(2), after "comprised solely of *synchronous generating units*", insert "or an *integrated resource system* comprised solely of *synchronous integrated resource units* and (where applicable) *synchronous generating units*".

[1083] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(j)(3), after "comprised solely of *asynchronous generating units*", insert ", or an *integrated resource system* comprised solely of *asynchronous integrated resource units* and (where applicable) *asynchronous generating units*".

[1084] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

Omit clause S5.2.5.5(j)(4) and substitute:

- (4) for *generating system* or *integrated resource system* comprised of *synchronous generating units* or *synchronous integrated resource units* and *asynchronous generating units* or *asynchronous integrated resource units*:
 - (i) for that part of the *generating system* or *integrated resource system* comprised of *synchronous generating units* or *synchronous integrated resource units*, the requirements of paragraph (m); and
 - (ii) for that part of the *generating system* or *integrated resource system* comprised of *asynchronous generating units* or *asynchronous integrated resource units*, the requirements of paragraphs (n) to (p).

[1085] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5, before paragraph (k), omit the subheading and substitute:

All generating systems and integrated resource systems

[1086] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(k), omit "A *generating system* and each of its *generating units*", and substitute "A *generating system* or *integrated resource system* and each of its *generating units* and *integrated resource units*".

[1087] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(k), after "that would *disconnect* the *generating unit*", insert "or *integrated resource unit*".

[1088] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(k)(2), omit "reduction of *generation* in" and substitute "impact on".

[1089] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(l), omit "A *generating system* and each of its *generating units*" and substitute "A *generating system* or *integrated resource system* and each of its *generating units* and *integrated resource units*".

[1090] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(1)(6), after "the islanding of the *generating system*", insert "or *integrated resource system*".

[1091] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5, before paragraph (m), omit the subheading and substitute:

Synchronous generating systems and synchronous integrated resource systems

[1092] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(m), after "or energy source availability beyond the *Generator's*", insert "or *Integrated Resource Provider's*".

[1093] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(m), after "a *generating system* comprised of *synchronous generating units*", insert "or an *integrated resource system* comprised of *synchronous integrated resource units* and where applicable *synchronous generating units*".

[1094] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(m)(2), omit "output" and substitute "level".

[1095] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5, before paragraph (n), omit the subheading and substitute:

Asynchronous generating systems and asynchronous integrated resource systems

[1096] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(n), after "a *generating system* comprised of *asynchronous generating units*", insert "or an *integrated resource system* comprised of *asynchronous integrated resource units* and (where applicable) *asynchronous generating units*".

[1097] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(n)(1)(i), after "maximum continuous current of the *generating system*", insert "or *integrated resource system*".

[1098] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(n)(1)(i), after "including all operating *asynchronous generating units*", insert "or *asynchronous integrated resource units*".

[1099] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(n)(1)(ii), after "maximum continuous current of the *generating system*", insert "or *integrated resource system*".

[1100] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(n)(1)(ii), after "including all operating *asynchronous generating units*", insert "and all operating *asynchronous integrated resource units*".

[1101] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(n)(2), omit "output" and substitute "level".

[1102] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(o)(1), after "the *generating system*", insert "or *integrated resource system*".

[1103] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(o)(2), after "require the *generating system*", insert "or *integrated resource system*".

[1104] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(o)(3), omit "generating system" and substitute "*generating system or integrated resource system*".

[1105] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause 5.2.5.5(p), after "a *generating system*", insert "or *integrated resource system*".

[1106] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause 5.2.5.5(p)(2), after "where the *generating system*", insert "or *integrated resource system*".

[1107] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause 5.2.5.5(r), omit "*generating plant or loads*" and substitute "*plant*".

[1108] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause 5.2.5.5, before paragraph (s), omit the second subheading and substitute:

All generating systems and integrated resource systems

[1109] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

Omit clause S5.2.5.5(s) and substitute:

- (s) The *performance standard* must include any operational arrangements to ensure the *generating system* or *integrated resource system* including all operating *generating units* and all operating *integrated resource units* will meet its agreed performance levels under abnormal *network*, or *generating system* or *integrated resource system* conditions.

[1110] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5, before paragraph (u), omit the subheading and substitute:

Asynchronous generating systems or integrated resource systems

[1111] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(u)(1), after "continuous current of a *generating system*", insert "or *integrated resource system*".

[1112] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(u)(1), after "including its operating *asynchronous generating units*", insert "and operating *asynchronous integrated resource units*".

[1113] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(u)(2), after "including within the relevant *generating system*", insert "or *integrated resource system*".

[1114] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5, before paragraph (v), omit the subheading and substitute:

Synchronous generating systems and synchronous integrated resource systems

[1115] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

Omit clause S5.2.5.5(v) and substitute:

- (v) For a *generating system* or *integrated resource system* comprised solely of *synchronous generating units* or *synchronous integrated resource units* and (where applicable) *synchronous generating units*, the reactive current contribution may be limited to 250% of the maximum continuous current of the *generating system* or *integrated resource system*.

[1116] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(w), after "For a *synchronous generating unit* within a *generating system*", insert "or *integrated resource system* or a *synchronous integrated resource unit* within an *integrated resource system*".

[1117] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(w), after "other than a *generating system*", insert "or *integrated resource system*".

[1118] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events

In clause S5.2.5.5(w), after "maximum continuous current of that *synchronous generating unit*", insert "or *synchronous integrated resource unit*".

[1119] Clause S5.2.5.6 Quality of electricity generated and continuous uninterrupted operation

In clause S5.2.5.6, after "The *minimum access standard* is a *generating system*", insert "and an *integrated resource system*".

[1120] Clause S5.2.5.6 Quality of electricity generated and continuous uninterrupted operation

In clause S5.2.5.6, after "including each of its operating *generating units*", insert "and operating *integrated resource units*".

[1121] Clause S5.2.5.7 Partial load rejection

In clause S5.2.5.7(c), after "The *automatic access standard* is a *generating system*", insert "or an *integrated resource system*".

[1122] Clause S5.2.5.7 Partial load rejection

In clause S5.2.5.7(d), after "The *minimum access standard* is a *generating system*", insert "or an *integrated resource system*".

[1123] Clause S5.2.5.8 Protection of generating systems from power system disturbances

In the heading of clause S5.2.5.8, after "Protection of generating systems", insert "and integrated resource systems".

[1124] Clause S5.2.5.8 Protection of generating systems and integrated resource systems from power system disturbances

Omit clause S5.2.5.8(a)(1) and substitute:

- (1) subject to subparagraph (2) and paragraph (e), for a *generating system* or *integrated resource system* or any of its *generating units* or *integrated resource units* that is required by a *Generator*, *Integrated Resource Provider* or *Network Service Provider* to be automatically *disconnected* from the *power system* in response to abnormal conditions arising from the *power system*, the relevant *protection system* or *control system* must not *disconnect* the *generating system* or *integrated resource system* for:
 - (i) conditions for which it must remain in *continuous uninterrupted operation*; or
 - (ii) conditions it must withstand under the *Rules*; and

[1125] Clause S5.2.5.8 Protection of generating systems and integrated resource systems from power system disturbances

In clause S5.2.5.8(a)(2), after "comprised of *generating units* with a combined *nameplate rating* of 30 MW or more,", insert "an *integrated resource system* with a

nameplate rating of 5MW or more, or an *integrated resource system* comprised of *plant* with a combined *nameplate rating* of 5 MW or more,".

[1126] Clause S5.2.5.8 Protection of generating systems and integrated resource systems from power system disturbances

In clause S5.2.5.8(a)(2)(i)(A), after "the *generating system*" insert "or *integrated resource system*".

[1127] Clause S5.2.5.8 Title Protection of generating systems and integrated resource systems from power system disturbances

In clause S5.2.5.8(a)(2)(i)(B), after "the *generating system*" insert "or *integrated resource system*".

[1128] Clause S5.2.5.8 Protection of generating systems and integrated resource systems from power system disturbances

In clause S5.2.5.8(c), after "include a requirement for the *generating system*", insert "or *integrated resource system*".

[1129] Clause S5.2.5.8 Protection of generating systems and integrated resource systems from power system disturbances

In clause S5.2.5.8(c), omit "an island that supplies a *Customer*" and substitute "an island for supply to load".

[1130] Clause S5.2.5.8 Protection of generating systems and integrated resource systems from power system disturbances

In clause S5.2.5.8(d), omit "or *generating system*" and substitute ", *generating system*, *integrated resource unit* or *integrated resource system*".

[1131] Clause S5.2.5.8 Protection of generating systems and integrated resource systems from power system disturbances

In clause S5.2.5.8(e), after "a *generating system*", insert "or *integrated resource system*".

[1132] Clause S5.2.5.8 Protection of generating systems and integrated resource systems from power system disturbances

In clause S5.2.5.8(e)(1), after "between the *Generator*", insert "or *Integrated Resource Provider*".

[1133] Clause S5.2.5.8 Protection of generating systems and integrated resource systems from power system disturbances

In clause S5.2.5.8(e)(2), after each occasion of "the *generating system*", insert "or *integrated resource system*".

[1134] Clause S5.2.5.8 Protection of generating systems and integrated resource systems from power system disturbances

In clause S5.2.5.8(e)(3), after "where the *generating system*", insert "or *integrated resource system*".

[1135] Clause S5.2.5.8 Protection of generating systems and integrated resource systems from power system disturbances

In clause S5.2.5.8(e)(4), after "where the *generating system*", insert "or *integrated resource system*".

[1136] Clause S5.2.5.8 Protection of generating systems and integrated resource systems from power system disturbances

In clause S5.2.5.8(e)(5), after "between the *Generator*" insert "or *Integrated Resource Provider*".

[1137] Clause S5.2.5.8 Protection of generating systems and integrated resource systems from power system disturbances

In clause S5.2.5.8(f), after "damage incurred by the *Generator*", insert "or *Integrated Resource Provider*".

[1138] Clause S5.2.5.8 Protection of generating systems and integrated resource systems from power system disturbances

In clause S5.2.5.8(f), after "or within the *Generator's*", insert "or *Integrated Resource Provider's*".

[1139] Clause S5.2.5.9 Protection systems that impact on power system security

In clause S5.2.5.9(a)(1), after "any faulted element in a *generating system*", insert "or *integrated resource system*".

[1140] Clause S5.2.5.9 Protection systems that impact on power system security

In clause S5.2.5.9(b), after "the *Generator*", insert "or *Integrated Resource Provider*".

[1141] Clause S5.2.5.9 Protection systems that impact on power system security

In clause S5.2.5.9(c)(1), after "any faulted element within a *generating system*", insert "or *integrated resource system*".

[1142] Clause S5.2.5.9 Protection systems that impact on power system security

In clause S5.2.5.9(e), after "and the *Generator*", insert "or *Integrated Resource Provider*".

[1143] Clause S5.2.5.10 Protection to trip plant for unstable operation

In clause S5.2.5.10(a), after "The *automatic access standard* is a *generating system*", insert "and an *integrated resource system*".

[1144] Clause S5.2.5.10 Protection to trip plant for unstable operation

In clause S5.2.5.10(a)(1), after "for its *synchronous generating units*", insert "or *synchronous integrated resource units*".

[1145] Clause S5.2.5.10 Protection to trip plant for unstable operation

In clause S5.2.5.10(a)(1), after "other conditions where a *generating unit*", insert "or *integrated resource unit*".

[1146] Clause S5.2.5.10 Protection to trip plant for unstable operation

In clause S5.2.5.10(a)(2), after ""for its *asynchronous generating units*, insert "or *asynchronous integrated resource units*".

[1147] Clause S5.2.5.10 Protection to trip plant for unstable operation

In clause S5.2.5.10(b), after "The *minimum access standard* is a *generating system*", insert "and an *integrated resource system*".

[1148] Clause S5.2.5.10 Protection to trip plant for unstable operation

In clause S5.2.5.10(c), after "any other part of the *generating system*", insert "or *integrated resource system*".

[1149] Clause S5.2.5.10 Protection to trip plant for unstable operation

In clause S5.2.5.10(d), after "the affected *generating unit*", insert "or *integrated resource unit*".

[1150] Clause S5.2.5.10 Protection to trip plant for unstable operation

In clause S5.2.5.10(d)(1), after "other *generating units*", insert "*integrated resource units*".

[1151] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(a), in the definition of "**droop**", after each occasion of "of the *generating system*", insert "or *integrated resource system*".

[1152] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(a), in the definition of "**maximum operating level**", in paragraph (1), after "a *non-scheduled generating unit*", insert "or *non-scheduled integrated resource unit*".

[1153] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(a), in the definition of "**maximum operating level**", in paragraph (2), after "a *scheduled generating unit*", insert ", *scheduled integrated resource unit*".

[1154] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(a), in the definition of "**maximum operating level**", in paragraph (2), omit "*bid and offer validation data*" and substitute "*bid validation data*".

[1155] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(a), in the definition of "**maximum operating level**", omit paragraph (3) and substitute:

- (3) a *non-scheduled generating system* or *non-scheduled integrated resource system*, the combined maximum *sent out generation* consistent with the *nameplate ratings* of its in-service *generating units* and *integrated resource units* (if any);

[1156] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(a), in the definition of "**maximum operating level**", in paragraph (4), omit "*bid and offer validation data.*" and substitute "*bid validation data*; and".

[1157] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(a), in the definition of "**maximum operating level**", after paragraph (4), insert:

- (5) a *scheduled integrated resource system*, the combined maximum *sent out generation* to which its in-service *integrated resource units* and in-service *generating units* may be *dispatched* and as provided to *AEMO* in the most recent *bid validation data*.

[1158] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(a), in the definition of "**minimum operating level**", after paragraph (2), insert:

- (2A) a *scheduled integrated resource unit* or *non-scheduled integrated resource unit*, its minimum *active power* level for continuous stable operation;

[1159] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(a), in the definition of "**minimum operating level**", in paragraph (3), omit "and".

[1160] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(a)(4), omit "." and substitute "; and".

[1161] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(a), in the definition of "**minimum operating level**", after paragraph (4), insert:

- (5) a *scheduled integrated resource system* or a *non-scheduled integrated resource system* the combined minimum operating level of its in-service *integrated resource units* and in-service *generating units*.

[1162] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(b)(1), after "a *generating system's*", insert "or *integrated resource system's*".

[1163] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(b)(1)(ii), omit "and".

[1164] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(b), in the last paragraph, after "sufficient period for the *Generator*", insert "or *Integrated Resource Provider* (as relevant)".

[1165] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(b), in the last paragraph, omit "." and substitute "; and".

[1166] Clause S5.2.5.11 Frequency control

After clause S5.2.5.11(b)(2), before the "**Note**", insert:

- (3) an *integrated resource system* must be capable of operating in *frequency response mode* such that it automatically provides a proportional:
 - (i) decrease in *power transfer* to the *power system*, with a continuous shift from one to the other mode, in response to a rise in the *frequency* of the *power system* as measured at the *connection point* accompanied by a smooth change in *integrated resource unit* operating mode between *generation* and *load*; and
 - (ii) increase in *power transfer* to the *power system* in response to a fall in the *frequency* of the *power system* as measured at the *connection point* accompanied by a smooth change in *integrated resource unit* operating mode between *generation* and *load*,

sufficiently rapidly and sustained for a sufficient period for the *Integrated Resource Provider* (as relevant) to be in a position

to offer measurable amounts of all *market ancillary services* for the provision of *power system frequency control*.

[1167] Clause S5.2.5.11 Frequency control

After clause S5.2.5.11(b)(3), in the "Note", after "obligations on *Generators*", insert "and *Integrated Resource Providers*".

[1168] Clause S5.2.5.11 Frequency control

After clause S5.2.5.11(b)(3), in the "Note", after "obligations on *Scheduled and Semi-Scheduled Generators*", insert "and *Scheduled Integrated Resource Providers*".

[1169] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(c)(1), after "for a *generating system*", insert "or *integrated resource system*".

[1170] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(c)(1)(ii), omit "and".

[1171] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(c)(2), omit "." and substitute "; and".

[1172] Clause S5.2.5.11 Frequency control

After clause S5.2.5.11(c)(2), before the "Note", insert:

- (3) an *integrated resource system* must be capable of operating in *frequency response mode* such that, subject to energy source availability, it automatically provides:
 - (i) a decrease in *power transfer* to the *power system*, in response to a rise in the *frequency* of the *power system* as measured at the *connection point*; and
 - (ii) increase in *power transfer* to the *power system* in response to a fall in the *frequency* of the *power system* as measured at the *connection point*,

where the change in *active power* is either proportional or otherwise as agreed with *AEMO* and the *Network Service Provider*.

[1173] Clause S5.2.5.11 Frequency control

After clause S5.2.5.11(c)(3), omit the "Note" and substitute:

Note

Clause 4.4.2(b) of the *Rules* sets out the obligations on *Generators* and *Integrated Resource Providers* in relation to compliance with the technical requirements in clause S5.2.5.11, including being capable of operating in *frequency response mode*. Clause 4.4.2(c1) of the *Rules* sets out the obligations on *Scheduled* and *Semi-Scheduled Generators* and *Scheduled Integrated Resource Providers* in relation to the operation of their *generating systems* and *integrated resource systems* in accordance with the *Primary Frequency Response Requirements*.

[1174] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(i), omit "subparagraph (b)(2)" and substitute "subparagraphs (b)(2) and (b)(3)".

[1175] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(i)(2), after "a *generating system*", insert "or *integrated resource system*".

[1176] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(i)(3), after "nothing in subparagraph (b)(2)", insert "or (b)(3)".

[1177] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(i)(3), after "taken to require a *generating system*", insert "or *integrated resource system*".

[1178] Clause S5.2.5.11 Frequency control

Omit clause S5.2.5.11(i)(5)(i) and substitute:

- (i) agreed values for maximum operating level and minimum operating level, and where relevant the method of determining the values, and the values for:
 - (A) a *generating system* must take into account its in-service *generating units*; and
 - (B) an *integrated resource system* must take into account its in-service *integrated resource units* and in-service *generating units*; and

[1179] Clause S5.2.5.11 Frequency control

In clause S5.2.5.11(i)(5)(ii), omit "purpose of subparagraph (b)(2)" and substitute, "purpose of subparagraphs (b)(2) and (b)(3)".

[1180] Clause S5.2.5.12 Impact on network capability

In clause S5.2.5.12(a), after each occasion of "*generating system*", insert "*or integrated resource system*".

[1181] Clause S5.2.5.12 Impact on network capability

In clause S5.2.5.12(b), after "The *minimum access standard* is a *generating system*", insert "*or integrated resource system*"

[1182] Clause S5.2.5.12 Impact on network capability

In clause S5.2.5.12(b)(1), omit "*supply Customer load*" and substitute "*supply to load*".

[1183] Clause S5.2.5.12 Impact on network capability

Omit clause S5.2.5.12(b)(2) and substitute:

- (2) *power transfer capabilities* into a *region* by more than:
 - (i) the combined *sent out generation* of its *generating units* and *integrated resource units*; or
 - (ii) the combined *load* at the *connection point* of its *integrated resource units*.

[1184] Clause S5.2.5.12 Impact on network capability

Omit clause S5.2.5.12(d)(2) and substitute:

- (2) operational arrangements, including curtailment of the *generating system's* or *integrated resource system's* *generation* or *load* if necessary to ensure that the *plant* is operated in a way that meets at least the *minimum access standard* under abnormal *network, generating system* and *integrated resource system* conditions, so that *power system security* can be maintained.

[1185] Clause S5.2.5.12 Impact on network capability

In clause S5.2.5.12(e), after "that will be maintained by the *Generator*", insert "*or Integrated Resource Provider*".

[1186] Clause S5.2.5.12 Impact on network capability

In clause S5.2.5.12(e), after "but not changes to the *generating system*", insert "*or integrated resource system*".

[1187] Clause S5.2.5.12 Impact on network capability

In clause S5.2.5.12(g), after "additional *control system facilities* to a *generating system*", insert "*or integrated resource system*".

[1188] Clause S5.2.5.12 Impact on network capability

In clause S5.2.5.12(g), after "the *Network Service Provider* and the *Generator*", insert "or *Integrated Resource Provider* (as the case may be)".

[1189] Clause S5.2.5.13 Voltage and reactive power control

Omit clause S5.2.5.13(a) and substitute:

(a) [Deleted]

[1190] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(1), after "a *generating system*", insert "or *integrated resource system*".

[1191] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(1)(i), after each occasion of "*generating unit*", insert "or *integrated resource unit*"

[1192] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(1)(ii) and (iii), after "operation of the *generating system*", insert "or *integrated resource system*".

[1193] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(2A), after "a *generating system*", insert "or *integrated resource system*".

[1194] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(2B), after "a *generating system*", insert "or *integrated resource system*".

[1195] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(2B)(i), after "including within the *generating system*", insert "or *integrated resource system*".

[1196] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(3), after "a synchronous *generating system*", insert "or *synchronous integrated resource system*".

[1197] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(3)(ii), after "with *rated active power output*", insert "or *rated maximum demand*".

[1198] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(3)(vi), omit "*generation*" and substitute "transfer of power".

[1199] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(3)(vii)(C), after "a 5% *voltage* disturbance with the *generating unit*", insert "or *integrated resource unit*".

[1200] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(4), after "a *generating system*", insert "or *integrated resource system*"

[1201] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(4), after "comprised of *synchronous generating units*", insert "or *synchronous integrated resource units*".

[1202] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(4)(v), after "with the *generating system*", insert "or *integrated resource system*".

[1203] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(4)(v)(A) and (B), after "with the *generating system*", insert "or *integrated resource system*".

[1204] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(4)(vii)(B), omit "other than one" and substitute "or *integrated resource system* other than a system".

[1205] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(b)(4)(vii)(B), after "comprised of *synchronous generating units*", insert "or *synchronous integrated resource units*".

[1206] Clause S5.2.5.13 Voltage and reactive power control

Omit clause S5.2.5.13(c)(1) and substitute:

- (1) for a *synchronous generating unit* or a *synchronous integrated resource unit*, measurements of rotor speed and *active power* level of the *generating unit* or *integrated resource unit* as inputs, and otherwise, measurements of *power system frequency* and *active power* level of the *generating unit* or *integrated resource unit* as inputs;

[1207] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(c)(4), after "which for a *synchronous generating unit*", insert "or *synchronous integrated resource unit*".

[1208] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(c1)(1), after "including within the *generating system*", insert "or *integrated resource system*".

[1209] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(c1)(1)(i), after each occasion of "*generating system*", insert "or *integrated resource system*".

[1210] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(c1)(1)(ii), after each occasion of "*generating system*", insert "or *integrated resource system*".

[1211] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(c1)(3), after "with the *generating system*", insert "or *integrated resource system*".

[1212] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(1), after "a *generating system*", insert "or *integrated resource system*".

[1213] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(1)(i), after each occasion of "*generating unit*", insert "or *integrated resource unit*".

[1214] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(1)(ii), after "operation of the *generating unit*", insert "or *integrated resource unit*".

[1215] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(1)(iii), after "operation of the *generating unit*", insert "or *integrated resource unit*".

[1216] Clause S5.2.5.13 Voltage and reactive power control

After clause S5.2.5.13(d)(1), insert:

- (1A) an *integrated resource system* comprised of *integrated resource units* or *generating units* with a combined *nameplate rating* of

5 MW or more must have *facilities* for testing its *control systems* sufficient to establish their dynamic operational characteristics;

[1217] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(2A), after "a *generating system*", insert "or *integrated resource system*".

[1218] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(2B), after "a *voltage control system* for a *generating system*", insert "or *integrated resource system*".

[1219] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(2B)(i), after "including within the *generating system*", insert "or *integrated resource system*".

[1220] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(3), after "a *generating system's*", insert "or *integrated resource system's*".

[1221] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(3)(i), after "including within the *generating system*", insert "or *integrated resource system*".

[1222] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(3)(i)(A) and (B), after each occasion of "*generating system*", insert "or *integrated resource system*".

[1223] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(4), omit "*synchronous generating system*" and substitute "*synchronous generating system*".

[1224] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(4), after "with a *nameplate rating* of 30 MW or more,", insert "or a *synchronous integrated resource system* with a *nameplate rating* of 5 MW or more, in either case".

[1225] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(4)(ii), omit "*generation*" and substitute "transfer of power".

[1226] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(4)(iii), after "5% *voltage* disturbance with the *generating unit*", insert "or *integrated resource unit*".

[1227] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(d)(4)(iv), after "*voltage* disturbance does not cause the *generating unit*", insert "or *integrated resource unit*".

[1228] Clause S5.2.5.13 Voltage and reactive power control

At the end of clause S5.2.5.13(d)(4)(iv), omit "and".

[1229] Clause S5.2.5.13 Voltage and reactive power control

At the end of clause S5.2.5.13(d)(5)(iii), omit "." and substitute "; and".

[1230] Clause S5.2.5.13 Voltage and reactive power control

After clause S5.2.5.13(d)(5), insert:

- (6) an *integrated resource system* comprised of *asynchronous integrated resource units* or *asynchronous generating units* with a *nameplate rating* of 5 MW or more, with a *voltage control system* required to regulate *voltage* under subparagraph (d)(2A)(i) must:
 - (i) subject to co-ordination under paragraph (i), have a *settling time* less than 7.5 seconds for a 5% *voltage* disturbance with the *integrated resource unit* or *generating unit* electrically connected to the *power system* from an operating point where such a *voltage* disturbance would not cause any limiting device to operate; and
 - (ii) have limiting devices to ensure that a *voltage* disturbance would not cause the *integrated resource unit* or *generating unit* to trip at the limits of its operating capability.

[1231] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(f), after "by the *Generator*", insert "or *Integrated Resource Provider*".

[1232] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(f), after "highest level that the *generating system*", insert "or *integrated resource system*".

[1233] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(g1), after each occasion of "*generating system*", insert "or *integrated resource system*".

[1234] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(g1), after "more than one control mode, the *Generator*", insert "or *Integrated Resource Provider* (as relevant)".

[1235] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(i), after "a *generating unit* or *generating system*", insert "or *integrated resource unit* or *integrated resource system*".

[1236] Clause S5.2.5.13 Voltage and reactive power control

In clause S5.2.5.13(k), after "impact of the *generating units*", insert "or *integrated resource units*".

[1237] Clause S5.2.5.14 Active power control

In clause S5.2.5.14(a), after "The *automatic access standard* is a *generating system*", insert "or *integrated resource system*".

[1238] Clause S5.2.5.14 Active power control

In clause S5.2.5.14(a)(1), omit "or a *scheduled generating system*" and substitute ", a *scheduled generating system*, *scheduled integrated resource unit* or *scheduled integrated resource system*".

[1239] Clause S5.2.5.14 Active power control

In clause S5.2.5.14(a)(1)(i) and (ii), omit "output" and substitute "level".

[1240] Clause S5.2.5.14 Active power control

In clause S5.2.5.14(a)(2), omit "or *non-scheduled generating system*" and substitute ", *non-scheduled generating system*, *non-scheduled integrated resource unit* or *non-scheduled integrated resource system*".

[1241] Clause S5.2.5.14 Active power control

In clause S5.2.5.14(a)(2)(i), (ii) and (iii), omit "output" and substitute "level".

[1242] Clause S5.2.5.14 Active power control

In clause S5.2.5.14(a)(3)(i), (ii), (iii) and (iv), omit "output" and substitute "level".

[1243] Clause S5.2.5.14 Active power control

In clause S5.2.5.14(b), after "The *minimum access standard* is a *generating system*" , insert "or *scheduled integrated resource system*".

[1244] Clause S5.2.5.14 Active power control

In clause S5.2.5.14(b)(1), omit "or a *scheduled generating system*" and substitute ", a *scheduled generating system, scheduled integrated resource unit or scheduled integrated resource system*".

[1245] Clause S5.2.5.14 Active power control

In clause S5.2.5.14(b)(1)(i), omit "output" and substitute "level".

[1246] Clause S5.2.5.14 Active power control

In clause S5.2.5.14(b)(2), after "for a *non-scheduled generating system*", insert "or *non-scheduled integrated resource system*".

[1247] Clause S5.2.5.14 Active power control

In clauses S5.2.5.14(b)(2)(i), (ii) and (iii), omit "output" and substitute "level".

[1248] Clause S5.2.5.14 Active power control

In clauses S5.2.5.14(b)(3)(i) and (ii), omit "output" and substitute "level".

[1249] Clause S5.2.5.14 Active power control

In clause S5.2.5.14(c), after "AEMO may require the *Generator*", insert "or *Integrated Resource Provider*".

[1250] Clause S5.2.5.14 Active power control

In clause S5.2.5.14(d), after "a requirement for the *generating system*", insert "or *integrated resource system*".

[1251] Clause S5.2.5.14 Active power control

In clause S5.2.5.14(d), omit "output" and substitute "*active power level*".

[1252] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(a)(5), omit "or".

[1253] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(a)(6), omit ", " and substitute ";".

[1254] Clause S5.2.6.1 Remote Monitoring

After clause S5.2.6.1(a)(6), insert:

- (7) *scheduled integrated resource unit*;
- (8) *scheduled integrated resource system*;
- (9) *non-scheduled integrated resource unit*; or
- (10) *non-scheduled integrated resource system*,

[1255] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b)(1), after "in respect of a *generating system*", insert "or *integrated resource system*".

[1256] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b)(1)(i), after "that carry the *generation*", insert "or *load*".

[1257] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b)(1)(iii), after "groups of identical *generating units*", insert "or *integrated resource units*".

[1258] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b)(1)(iv), after "number of identical *generating units*", insert "or *integrated resource units*".

[1259] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b)(1)(iv), after "each non-identical *generating unit*", insert "or *integrated resource unit*".

[1260] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b)(1)(v), after "*reactive power* for the *generating system*", insert "or *integrated resource system*".

[1261] Clause S5.2.6.1 Remote Monitoring

Omit clause S5.2.6.1(b)(2) and substitute:

- (2) in respect of:
 - (i) a *generating unit* with a *nameplate rating* of 30 MW or more; or
 - (ii) an *integrated resource unit* with a *nameplate rating* of 5MW or more,

current, *voltage*, *active power* and *reactive power* in respect of *generating unit* or *integrated resource unit* stators or power conversion systems (as applicable);

[1262] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b)(3), omit "or *generating system*" and substitute ", *generating system*, *integrated resource unit* or *integrated resource system*,".

[1263] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b)(4), after "that is part of a *generating system*", insert "or *integrated resource system*".

[1264] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b)(4), after "but not part of a particular *generating unit*", insert "or particular *integrated resource unit*".

[1265] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b)(6), omit "or *semi-scheduled generating system*" and substitute ", *semi-scheduled generating system*, *scheduled integrated resource system* or *scheduled integrated resource unit*".

[1266] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b)(8), after "operation of the *generating unit*", insert "*integrated resource unit*,".

[1267] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b)(8), after "the *active power* response of the *generating system*", insert "or *integrated resource system*".

[1268] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b1)(1), after "in respect of a *generating system*", insert "or *integrated resource system*".

[1269] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b1)(2), omit "or *semi-scheduled generating system*" and substitute ", *semi-scheduled generating system*, *scheduled integrated resource system* or *scheduled integrated resource unit*".

[1270] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(b1)(3), after "a *non-scheduled generating system*", insert "or *non-scheduled integrated resource system*".

[1271] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(c)(4), omit "or".

[1272] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(c)(5), omit ", " and substitute ";".

[1273] Clause S5.2.6.1 Remote Monitoring

After clause S5.2.6.1(c)(5), insert:

- (6) *scheduled integrated resource unit;*
- (7) *scheduled integrated resource system;*
- (8) *non-scheduled integrated resource unit; or*
- (9) *non-scheduled integrated resource system,*

[1274] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(d)(1), omit "output" and substitute "level".

[1275] Clause S5.2.6.1 Remote Monitoring

Omit clause S5.2.6.1(d)(2) and substitute:

- (2) *if connected to a transmission system, the reactive power level output of the generating unit or generating system (as applicable);*

[1276] Clause S5.2.6.1 Remote Monitoring

In clause S5.2.6.1(d)(3), omit "." and substitute ";".

[1277] Clause S5.2.6.1 Remote Monitoring

After clause S5.2.6.1(d)(3), insert:

- (4) *the active power level of the integrated resource unit or integrated resource system (as applicable); and*
- (5) *if connected to a transmission system, the reactive power level of the integrated resource unit or integrated resource system (as applicable).*

[1278] Clause S5.2.6.2 Communications equipment

In clause S5.2.6.2(a), after "is a *Generator*", insert "or *Integrated Resource Provider*".

[1279] Clause S5.2.6.2 Communications equipment

In clause S5.2.6.2(a)(1), after "between the *Generator's* ", insert "or *Integrated Resource Provider's*".

[1280] Clause S5.2.6.2 Communications equipment

In clause S5.2.6.2(a)(2), after "in relation to its *generating system*", insert "or *integrated resource system*".

[1281] Clause S5.2.6.2 Communications equipment

In clause S5.2.6.2(a)(2), after "for the relevant *generating unit*", insert "or *integrated resource unit*".

[1282] Clause S5.2.6.2 Communications equipment

In clause S5.2.6.2(b), after "is a *Generator*", insert "or *Integrated Resource Provider*".

[1283] Clause S5.2.6.2 Communications equipment

In clause S5.2.6.2(b)(1), after "between the *Generator's* ", insert "or *Integrated Resource Provider's*".

[1284] Clause S5.2.6.2 Communications equipment

In clause S5.2.6.2(b)(2), after "in relation to its *generating system*", insert "or *integrated resource system*".

[1285] Clause S5.2.6.2 Communications equipment

In clause S5.2.6.2(b)(2), after "for the relevant *generating unit*", insert "or *integrated resource unit*".

[1286] Clause S5.2.6.2 Communications equipment

In clause S5.2.6.2(d), after "that a *Generator*", insert "or *Integrated Resource Provider*".

[1287] Clause S5.2.6.2 Communications equipment

In clause S5.2.6.2(d), after "for each of its *generating systems*", insert "or *integrated resource systems*".

[1288] Clause S5.2.6.2 Communications equipment

In clause S5.2.6.2(e), after "otherwise agreed by the *Generator*", insert "or *Integrated Resource Provider* (as the case may be)".

[1289] Clause S5.2.6.2 Communications equipment

In clause S5.2.6.2(f), after "that the *Generator*", insert "or *Integrated Resource Provider*".

[1290] Clause S5.2.7 Power station auxiliary supplies

In clause S5.2.7, omit "takes its auxiliary supplies" and substitute "or *integrated resource system* takes its *auxiliary load*".

[1291] Clause S5.2.7 Power station auxiliary supplies

In clause S5.2.7, after "as if the *Generator*", insert "or *Integrated Resource Provider* (as the case may be)".

[1292] Clause S5.2.8 Fault current

In clause S5.2.8(a)(1), after "the contribution of the *generating system*", insert "or *integrated resource system*".

[1293] Clause S5.2.8 Fault current

In clause S5.2.8(a)(2), after "a *generating system's*", insert "or *integrated resource system's*".

[1294] Clause S5.2.8 Fault current

In clause S5.2.8(a)(3), omit each occasion of "or *generating system*" and substitute ", *generating system, integrated resource unit or integrated resource system*".

[1295] Clause S5.2.8 Fault current

In clause S5.2.8(b)(1), after "the *generating system*", insert "or *integrated resource system*".

[1296] Clause S5.2.8 Fault current

In clause S5.2.8(b)(2), after "the *generating system's*", insert "or *integrated resource system's*".

[1297] Clause S5.2.8 Fault current

In clause S5.2.8(b)(3), omit each occasion of "or *generating system*" and substitute ", *generating system, integrated resource unit or integrated resource system*".

[1298] Clause S5.2.8 Fault current

Omit clause S5.2.8(c) and substitute:

- (c) In negotiating a *negotiated access standard*, the *Network Service Provider* must consider alternative *network* configurations in the

determination of the applicable fault current level and must prefer those options that maintain an equivalent level of service to other *Network Users* and which, in the opinion of the *Generator* or *Integrated Resource Provider* (as the case may be), impose the least obligation on the *Generator* or *Integrated Resource Provider*.

[1299] Clause S5.3.1a Introduction to the schedule

Omit clause S5.3.1a(a)(1) and substitute "[Deleted]".

[1300] Clause S5.3.1a Introduction to the schedule

Omit clause S5.3.1a(a)(2) and substitute "[Deleted]".

[1301] Clause S5.3.1a Introduction to the schedule

In clause S5.3.1a(a)(3), omit "*market load*" and substitute "*market connection points*".

[1302] Clause S5.3.1a Introduction to the schedule

Omit clause S5.3.1a(d) and substitute:

- (d) If the *Connection Applicant* is a *Registered Participant* in relation to the proposed *connection*, the *Network Service Provider* may include as terms and conditions of the *connection agreement* any provision of this schedule that is expressed as an obligation on a *Network User*.
- (d1) If the *Connection Applicant* is not a *Registered Participant* in relation to the proposed *connection*, the *Network Service Provider* must include as terms and conditions of the *connection agreement*:
 - (1) each provision of this schedule that is expressed as an obligation on a *Network User*; and
 - (2) each agreed *performance standard* and an obligation to comply with it.

[1303] Schedule 5.4 Information to be Provided with Preliminary Enquiry

In schedule 5.4(c), omit "*generation or*" and substitute "*generation and*".

[1304] Schedule 5.4 Information to be Provided with Preliminary Enquiry

In schedule 5.4(d), omit "or" and substitute "and".

[1305] Schedule 5.4 Information to be Provided with Preliminary Enquiry

In schedule 5.4(e), after "number and type of *generating units*", insert "or *integrated resource units*".

[1306] Schedule 5.4 Information to be Provided with Preliminary Enquiry

In schedule 5.4(g), after "proposed *generating unit*", insert "or *integrated resource units*".

[1307] Schedule 5.4 Information to be Provided with Preliminary Enquiry

In schedule 5.4(h), after "for each *generating unit*", insert "or *integrated resource unit*".

[1308] Schedule 5.4A Preliminary Response

In schedule 5.4(a)(2), after "*embedded generating units*", insert "or *embedded integrated resource units*".

[1309] Clause S5.5.5 Asynchronous generating unit data

Omit clause S5.5.5, including the heading and substitute:

S5.5.5 Asynchronous generating unit and integrated resource unit data

A Generator or an Integrated Resource Provider that connects a generating system, that is an asynchronous generating unit, or an Integrated Resource Provider that connects an integrated resource system, that is an asynchronous integrated resource unit, must be given exemption from complying with those parts of the Power System Model Guidelines, Power System Design Data Sheet and Power System Design Data Sheet that are determined by the Network Service Provider to be not relevant to such generating systems or integrated resource systems, but must comply with those parts of schedules 5.5.3, 5.5.4, and 5.5.5 that are relevant to such generating systems or integrated resource systems, as determined by the Network Service Provider.

[1310] Clause S5.5.6 Generating units smaller than 30MW data

In clause S5.5.6, after "A *Generator*", insert "or an *Integrated Resource Provider*".

[1311] New clause S5.5.6A Integrated resource units smaller than 5MW data

After clause S5.5.6, insert:

S5.5.6A Integrated resource units smaller than 5MW data

An *Integrated Resource Provider* that connects an *integrated resource unit* smaller than 5 MW or *integrated resource units* totalling less than 5 MW to a *connection point* to a *distribution network* must submit registered system planning data and registered data to *AEMO* and the relevant *Network Service Provider* in accordance with the requirements specified in the *Power System Model Guidelines*, *Power System Design Data Sheet* and *Power System Setting Data Sheet*.

Codes:

S = Standard Planning Data

D = Detailed Planning Data

R = Registered Data (R1 pre-connection, R2 post-connection)

[1312] Clause S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines

In clause S5.5.7(a)(1), after "5.2.5(d), 5.2.5(e)", insert ", 5.2.5A(d), 5.2.5A(e)".

[1313] Clause S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines

In clause S5.5.7(a)(2), after "5.2.5(d), 5.2.5(e)", insert ", 5.2.5A(d), 5.2.5A(e)".

[1314] Clause S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines

In clause S5.5.7(a)(3), after "5.2.5(d), 5.2.5(e)", insert ", 5.2.5A(d), 5.2.5A(e)".

[1315] Clause S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines

Omit clause S5.5.7(b1)(1)(i) and substitute:

- (i) *Generators* and *Integrated Resource Providers* must provide under clause 5.2.5(d), clause 5.2.5(e), clause 5.2.5A(d), clause 5.2.5A(e), clause 5.3.9(b)(2), clause S5.2.4 and clause S5.5.6;

[1316] Clause S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines

In clause S5.5.7(b1)(2), after "as the types of *generating systems*", insert ", *integrated resource systems*".

[1317] Clause S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines

In clause S5.5.7(b1)(4), after "5.2.5(d), 5.2.4(e)", insert ", 5.2.5A(d), 5.2.5A(e)".

[1318] Schedule 5.5.3 Network and plant technical data of equipment at or near connection point

In schedule 5.5.3 table, under the subheading "**Short Circuit Infeed to the Network**", after "including infeeds from *generating units*", insert "or *integrated resource units*".

[1319] Schedule 5.5.3 Network and plant technical data of equipment at or near connection point

In schedule 5.5.3 table, omit the subheading "**Circuits Connecting Embedded Generating Units to the Network:**" and substitute "**Circuits Connecting Embedded Generating Units or Embedded Integrated Resource Units to the Network:**".

[1320] Schedule 5.5.3 Network and plant technical data of equipment at or near connection point

In schedule 5.5.3 table, under the subheading "**Circuits Connecting Embedded Generating Units or Embedded Integrated Resource Units to the Network:**", omit "and *generating systems*" and substitute ", *generating systems, integrated resource units and integrated resource systems*".

[1321] Schedule 5.5.4 Network Plant and Apparatus Setting Data

In schedule 5.5.4 table, under the subheading "**Short circuit ratio**", after each occasion of "*generating system*", insert "or *integrated resource system*".

[1322] Schedule 5.6 Terms and Conditions of Connection agreements and network operating agreements

In schedule 5.6, under Part A, in paragraph (c1), after "or schedule 5.2 for *Generators*", insert "and *Integrated Resource Providers*".

[1323] Schedule 5.6 Terms and Conditions of Connection agreements and network operating agreements

In schedule 5.6, under Part A, in paragraph (k), after "where an expected *load*", insert "or *integrated resource unit*".

[1324] Schedule 5.8 Distribution Annual Planning Report

Omit schedule 5.8(b)(2)(ix) and substitute:

- (ix) *generation capacity of known embedded generating units and embedded integrated resource units;*

[1325] Schedule 5.8 Distribution Annual Planning Report

In schedule 5.8(l)(1)(i), after "*embedded generating units*", insert "and *embedded integrated resource units*".

[1326] Schedule 5.8 Distribution Annual Planning Report

In schedule 5.8(l)(1)(ii), after "*embedded generating units*" insert "and *embedded integrated resource units*".

[1327] Schedule 5.8 Distribution Annual Planning Report

In schedule 5.8(l)(1)(iii), after "*embedded generating units*", insert "and *embedded integrated resource units*".

[1328] Schedule 5.8 Distribution Annual Planning Report

In schedule 5.8(l)(1)(iv), after "*embedded generating units*", insert "and *embedded integrated resource units*".

[1329] Schedule 5.9 Demand side engagement document (clause 5.13.1(h))

In schedule 5.9(i), after "with *Embedded Generators*", insert "or *Embedded Integrated Resource Providers*".

[1330] Schedule 5.9 Demand side engagement document (clause 5.13.1(h))

In schedule 5.9(j), after "for *embedded generating units*", insert "and *embedded integrated resource units*".

**[1331] Schedule 5.9 Demand side engagement document
(clause 5.13.1(h))**

In schedule 5.9(k), after "for an *embedded generating unit*", insert "or *embedded integrated resource unit*".

[1332] Clause 5A.A.1 Definitions

In clause 5A.A.1, in the definition of "**embedded generator**", after "an *embedded generating unit*" insert "or an *embedded integrated resource unit*".

[1333] Clause 5A.A.1 Definitions

In clause 5A.A.1, in the definition of "**micro EG connection**", after "an *embedded generating unit*" insert "or an *embedded integrated resource unit*".

[1334] Clause 5A.A.1 Definitions

In clause 5A.A.1, in the definition of "**micro embedded generator**", after "an *embedded generating unit*" insert "or *embedded integrated resource unit*".

[1335] Clause 5A.A.2 Application of this Chapter

In clause 5A.A.2(b), after "an *embedded generating unit*" insert "or *embedded integrated resource unit*".

[1336] Clause 5A.A.2 Application of this Chapter

In clause 5A.A.2(c), after "relevant *embedded generating unit*" insert "or *embedded integrated resource unit*".

**[1337] Clause 5A.A.3 Small Generation Aggregator deemed to
be a retail customer**

Omit the heading of clause 5A.A.3 and substitute:

**5A.A.3 Small Resource Aggregator deemed to be agent of a retail
customer**

**[1338] Clause 5A.A.3 Small Resource Aggregator deemed to
be agent of a retail customer**

Omit clause 5A.A.3 in its entirety and substitute:

- (a) *A Small Resource Aggregator is deemed to be the agent of a retail customer, where there is an agreement between the Small Resource Aggregator and the retail customer relating to the retail customer's small generating unit under which the Small Resource Aggregator is financially responsible for the market connection point at which the small generating unit is connected to the national grid.*

- (b) A *Small Resource Aggregator* is deemed to be the agent of a *retail customer*, where there is an agreement between the *Small Resource Aggregator* and the *retail customer* relating to the *retail customer's small integrated resource unit* under which the *Small Resource Aggregator* is *financially responsible* for the *market connection point* at which the *small integrated resource unit* is connected to the *national grid*.

[1339] Clause 5A.B.2 Proposed model standing offer for basic connection services

In clause 5A.B.2(b)(7)(v), after "replacement *embedded generating unit*", insert "or *embedded integrated resource unit*".

[1340] Clause 5A.C.3 Negotiation framework

Omit clause 5A.C.3(a)(3)(v) (excluding the note) and substitute:

- (v) if the *connection applicant* is proposing to connect a new or replacement *embedded generating unit* or *embedded integrated resource unit* by way of a *basic micro EG connection service*, that the *embedded generating unit* or *embedded integrated resource unit* must be compliant with the *DER Technical Standards*.

[1341] Clause 5A.D.1 Publication of information

In clause 5A.D.1(a)(7), after "of *embedded generating units*" insert "or *embedded integrated resource units*".

[1342] Clause 5A.D.1A Register of completed embedded generation projects

In clause 5A.D.1A(a), in the definition of "**completed non-registered embedded generation projects**", after "all *embedded generating units*" insert "or *embedded integrated resource units*".

[1343] Clause 5A.D.1A Register of completed embedded generation projects

In clause 5A.D.1A(b)(2), after "all *embedded generating units*" insert "or *embedded integrated resource units*".

[1344] Schedule 5A.1 Minimum content requirements for connection contract

In Schedule 5A.1, in Part B, in paragraph (a), after "'an *embedded generating unit*" insert "or *embedded integrated resource unit*".

[1345] Schedule 5A.1 Minimum content requirements for connection contract

In Schedule 5A.1, in Part B, omit paragraph (a)(7a) and substitute:

- (7a) if the *connection applicant* is proposing to connect a new or replacement *embedded generating unit* or *embedded integrated resource unit* by way of a *basic micro EG connection service*, a requirement that the *embedded generating unit* or *embedded integrated resource unit* must be compliant with the *DER Technical Standards*.

[1346] Clause 6.7.2 Determination of terms and conditions of access for negotiated distribution services

In clause 6.7.2(b)(3), omit "*use of system services charges and access charges*" and substitute "charges".

[1347] Clause 6.19.1 Forecast use of networks by Distribution Customers and Embedded Generators

Omit the heading of clause 6.19.1 and substitute:

6.19.1 Forecast use of networks by Distribution Customers, Embedded Generators and Embedded Integrated Resource Providers

[1348] Rule 6.20 Billing and Settlements Process

Omit rule 6.20 and substitute:

This clause describes the manner in which *Distribution Customers*, *Embedded Generators* and *Embedded Integrated Resource Providers* are billed by *Distribution Network Service Providers* for *distribution services* and how payments for *distribution services* are settled.

[1349] Clause 6.20.1 Billing for distribution services

In clause 6.20.1(a)(1), after "*Embedded Generators*" insert "*and Embedded Integrated Resource Providers*".

[1350] Clause 6.20.1 Billing for distribution services

In clause 6.20.1(a)(1)(i), after "*Embedded Generator*" insert "*and Embedded Integrated Resource Provider*".

[1351] Clause 6.20.1 Billing for distribution services

In clause 6.20.1(e)(1), omit "and".

[1352] Clause 6.20.1 Billing for distribution services

After clause 6.20.1(e)(1) insert a new clause 6.20.1(e)(1A):

(1A) *Embedded Integrated Resource Providers*;

[1353] Clause 6.20.1 Billing for distribution services

In clause 6.20.1(e)(2), omit "and".

[1354] Clause 6.20.1 Billing for distribution services

Omit clause 6.20.1(e)(3) and substitute:

(3) **[Deleted]**

[1355] Clause 6.20.1 Billing for distribution services

Omit clause 6.20.1(e)(4) and substitute:

(4) *settlements ready data* obtained from *AEMO's metering database*, for those *Embedded Generators, Embedded Integrated Resource Providers, Market Customers* and *Non-Registered Customers* with *connection points* that have a type 1, 2 or 3 *metering installation*; and

[1356] Clause 6.20.1 Billing for distribution services

Omit clause 6.20.1(e)(5) and substitute:

(5) *metering data*, in accordance with a *metrology procedure* that allows the *Distribution Network Service Provider* to use *energy data* for this purpose, or otherwise *settlements ready data* obtained from *AEMO's metering database*, for those *Embedded Generators, Embedded Integrated Resource Providers, Market Customers* and *Non-Registered Customers* with *connection points* that have a type 4, 4A, 5, 6 or 7 *metering installation*.

[1357] Clause 6.21.1 Prudential requirements for distribution network service

In clause 6.21.1(a), after "an *Embedded Generator*" insert ", *Embedded Integrated Resource Provider*".

[1358] Clause 6.21.1 Prudential requirements for distribution network service

Omit clause 6.21.1(b) and substitute:

(b) Prudential requirements for *connection service* and/or *distribution use of system service* are a matter for negotiation between the *Distribution*

Network Service Provider and the Embedded Generator, Embedded Integrated Resource Provider or Distribution Customer and the terms agreed must be set out in the connection agreement between the Distribution Network Service Provider and the Embedded Generator, Embedded Integrated Resource Provider or Distribution Customer.

[1359] Clause 6.21.1 Prudential requirements for distribution network service

Omit clause 6.21.1(c)(3) and substitute:

- (3) the conditions applying in the event of default by the *Distribution Customer, Embedded Generator or Embedded Integrated Resource Provider.*

[1360] Clause 6.22.2 Determination of dispute

After clause 6.22.2(b), insert a new clause 6.22.2(b1):

- (b1) Subject to paragraphs (a) and (b), in determining an access dispute about the *terms and conditions of access* to a *direct control service* for a *Distribution Network User* other than a *retail customer*, the *AER* must apply the principles in clause 6.7.1 as if the *direct control service* were a *negotiated distribution service* for the purposes of that clause.

[1361] Clause 6.22.2 Determination of dispute

In clause 6.22.2(e), omit "clause 5.5(f)(4)(ii) and (iii)" and substitute "clause 5.3AA(f)(4)(ii) and (iii)".

[1362] Rule 6.23 Separate disclosure of transmission and distribution charges

In rule 6.23(a)(1), after "greater than 10MW or" insert "electricity consumption greater than".

[1363] Clause 7.4.1 Qualifications and registration of Metering Providers

In clause 7.4.1(e), after "A *Market Generator*" insert ", *Integrated Resource Provider* or *Small Resource Aggregator*".

[1364] Clause 7.4.2 Qualifications and registration of Metering Data Providers

In clause 7.4.2(e), after "A *Market Generator*" insert "or *Integrated Resource Provider* or *Small Resource Aggregator*".

[1365] Clause 7.6.2 Persons who may appoint Metering Coordinators

In clause 7.6.2(a)(2), after "a *generating system*" insert "or *integrated resource system*".

[1366] Clause 7.6.2 Persons who may appoint Metering Coordinators

In clause 7.6.2(a)(2)(i), after "*connection point*;" insert "or".

[1367] Clause 7.6.2 Persons who may appoint Metering Coordinators

Omit clause 7.6.2(a)(2)(ii) and substitute :

- (ii) a *Non-Market Generator* or *Non-Market Integrated Resource Provider* who owns, controls or operates the *generating system* or *integrated resource system* that is connected to the *distribution network* at the *connection point*; or

[1368] Clause 7.6.2 Persons who may appoint Metering Coordinators

Omit clause 7.6.2(a)(2)(iii) and substitute:

- (iii) a person who owns, controls or operates the *generating system* or *integrated resource system* that is connected to the *distribution network* at the *connection point* and is exempt from the requirement to register as a *Generator* or *Integrated Resource Provider* under clause 2.1A.2(a); and

[1369] Clause 7.6.2 Persons who may appoint Metering Coordinators

In clause 7.6.2(c)(1), omit "*market load at the*".

[1370] Clause 7.8.2 Metering installation components

Omit clause 7.8.2(b1)(2) and substitute:

- (2) *distribution network connection point* where the relevant *financially responsible Market Participant* is a *Market Generator*, *Integrated Resource Provider* or *Small Resource Aggregator*,

[1371] Clause 7.8.2 Metering installation components

In clause 7.8.2, omit the heading after paragraph (ec) and substitute:

Requirements for metering installations for non-market generating units and non-market integrated resource units

[1372] Clause 7.8.2 Metering installation components

In clause 7.8.2(f), after "*non-market generating unit*" insert "*or non-market integrated resource unit*".

[1373] Clause 7.8.2 Metering installation components

In clause 7.8.2(f)(5), omit "sent out annual *energy* volumes" and substitute "annual *sent out generation*".

[1374] Clause 7.8.2 Metering installation components

In clause 7.8.2(f)(6), after "the *generating unit*" insert "*or integrated resource unit*".

[1375] Clause 7.8.2 Metering installation components

In clause 7.8.2, omit the heading after paragraph (f) and substitute:

Requirements for metering installations for small generating units and small integrated resource units

[1376] Clause 7.8.2 Metering installation components

Omit clause 7.8.2(g) and substitute:

- (g) In addition to the requirements for *metering installations* for *non-market generating units* in paragraph (f), the *Metering Coordinator* for a *market connection point* that connects a *small generating unit* or a *small integrated resource unit* must ensure that a *metering installation*:
 - (1) is classified as a type 1, 2, 3 or 4 *metering installation*; and
 - (2) is capable of recording *interval energy data* relevant to *settlements*.

[1377] Clause 7.8.9 Meter churn

Omit clause 7.8.9(g) and substitute:

- (g) The *meter churn procedures* must include provisions that enable the installation of a new or replacement *metering installation* at a *connection point* as soon as practicable after the transfer of a *connection point* to a different *financially responsible Market Participant* has been effected by *AEMO*.

[1378] Clause 7.10.2 Data management and storage

In clause 7.10.2(b), omit "are *market loads*" and insert "have been classified as *market connection points*".

[1379] Clause 7.10.5 Periodic energy metering

In clause 7.10.5(b)(1), omit "for each *first-tier load* and *market load*".

[1380] Clause 7.10.6 Time settings

Omit clause 7.10.6(a) (excluding the note) and substitute:

- (a) The *Metering Provider* must set the times of clocks of all *metering installations* with reference to *Eastern Standard Time* to the applicable standard of accuracy in accordance with Schedule 7.4 when installing, testing and maintaining *metering installations*.

[1381] Clause 7.10.6 Time settings

In clause 7.10.6(d)(2), omit "relevant to the *load* through the *connection point*".

[1382] Clause 7.11.3 Changes to energy data or to metering data

In clause 7.11.3(d), omit "*connection point loads*" and substitute "*energy* consumed at that *connection point*".

[1383] Clause 7.16.3 Requirements of the metrology procedure

In clause 7.16.3(c)(6A), omit "as a *market load*" and substitute "by a *Market Participant*".

[1384] Clause 7.16.5 Additional metrology procedure matters

In clause 7.16.5(a)(1)(iv), omit "*market load* connected to a" and substitute "*market connection point* on a".

[1385] Clause 7.16.5 Additional metrology procedure matters

In clause 7.16.5(a)(2)(v), omit "*market load* that is connected to" and substitute "*market connection point* on".

[1386] Clause S7.1.2 Metering register information

Omit clause S7.1.2(e)(1) and substitute:

- (1) *trading interval* calculation of *sent out generation*; and

[1387] Clause S7.1.2 Metering register information

Omit clause S7.1.2(e)(2) and substitute:

- (2) *trading interval* calculation of electricity consumption.

[1388] Clause S7.4.3 Accuracy requirements for metering installations

In clause S7.4.3, after Table S7.4.3.1, in Item 5, in paragraph (c), omit "*market loads*" and substitute "*market connection points*".

[1389] Clause 8.2.1 Application and guiding principles

In clause 8.2.1(h)(1), omit "2.2.1(c)" and substitute "2.1A.2".

[1390] Clause 8.2.1 Application and guiding principles

After clause 8.2.1(h)(1) insert:

- (1A) a decision by *AEMO* under clause 2.2.2 not to approve the classification of an *integrated resource unit* as a *scheduled integrated resource unit*;

[1391] Clause 8.2.1 Application and guiding principles

After clause 8.2.1(h)(1A) insert:

- (1B) a decision by *AEMO* under clause 2.2.3 not to approve the classification of an *integrated resource unit* as a *non-scheduled integrated resource unit*;

[1392] Clause 8.2.1 Application and guiding principles

In clause 8.2.1(h)(5C), omit "*Market Small Generation Aggregator*" and substitute "*Small Resource Aggregator*".

[1393] Clause 8.6.2 Exceptions

Omit clause 8.6.2(b1) and substitute:

- (b1) (**service providers**): the disclosure of *NMI Standing Data* or the provision of means to gain electronic access to that data by a *Customer*, *Integrated Resource Provider* or *Small Resource Aggregator* or the *Customer's*, *Integrated Resource Provider's* or *Small Resource Aggregator's Disclosees* to a person who requires the *NMI Standing Data* for the purposes of providing services in connection with the *Customer's*, *Integrated Resource Provider's* or *Small Resource Aggregator's* sale of electricity to end users.

[1394] Rule 8.10 Consumer advocacy funding obligation

In rule 8.10(b), omit "*Market Customers*" and substitute "*Market Participants* that are *financially responsible for market connection points* at which electricity is consumed".

[1395] Clause 9.4.2 Smelter Trader

Omit clause 9.4.2(a)(3) and substitute:

- (3) the *connection points* used to supply the electricity supplied under the Smelter Agreements are deemed to have been classified as Smelter Trader's *market connection points*;

Schedule 3 Amendment to the National Electricity Rules

(Clause 5)

[1] Chapter 10 New definitions

In chapter 10, insert the following new definitions in alphabetical order:

adjusted consumed energy

The *adjusted consumed energy* determined in accordance with clause 3.15.4.

adjusted sent out energy

The *adjusted sent out energy* determined in accordance with clause 3.15.4.

ancillary service unit

A *generating unit, integrated resource unit* or other *connected plant* that has been classified in accordance with Chapter 2 as an *ancillary service unit*.

asynchronous integrated resource unit

An *integrated resource unit* that is not a *synchronous integrated resource unit*.

auxiliary load

Electricity consumption used for the operation of *auxiliary plant* at a *power station*. *Auxiliary load* does not include electricity consumption used to charge a *production unit* or to pump water for a pumped hydro *production unit*.

bid validation data

Data submitted by *Market Participants* to *AEMO* in relation to their *scheduled resources* and *ancillary service units* in accordance with schedule 3.1.

Cost Recovery Market Participant

A person who is registered by *AEMO* under Chapter 2 as a *Generator, Integrated Resource Provider, Customer* or *Demand Response Service Provider*.

coupled production unit

A *production unit* with separate *plant* for the production of electricity, each of a different *plant type* (for example, *intermittent* and *non-intermittent*) and

capable of separate operation but that share equipment (such as an inverter) essential to the functioning of each.

default bid

A *dispatch bid* in respect of a *scheduled resource*, or a *market ancillary service bid* in respect of an *ancillary service unit*, to apply from a specified future *trading day*.

directed resource

A *scheduled resource* (other than a *wholesale demand response unit*), *ancillary service unit*, *market generating unit* or *market integrated resource unit* in relation to which a *Directed Participant* is given a *direction*.

dispatched network service

The *scheduled network service* which has been *dispatched* as part of *central dispatch*.

Embedded Integrated Resource Provider

An *Integrated Resource Provider* who owns, operates or controls an *embedded integrated resource unit*.

embedded integrated resource unit

An *integrated resource unit connected* within a *distribution network* and not having direct access to the *transmission network*.

energy constrained scheduled integrated resource unit

A *scheduled integrated resource unit* in respect of which the amount of electricity it is capable of producing or consuming for a period is less than the amount of electricity it would produce or consume in that period if it were *dispatched* to its full nominated availability for that period.

inertia unit

A *generating unit* or *integrated resource unit* registered with *AEMO* under clause 5.20B.6(b).

Integrated Resource Provider

A person who is registered by *AEMO* as an *Integrated Resource Provider* under Chapter 2.

For the purposes of Chapter 5, the term includes a person who is required or intends to register in that capacity or a person that owns, controls or operates an *embedded integrated resource unit* who has made an election under clause 5A.A.2(c).

integrated resource system

- (a) Subject to paragraph (b), for the purposes of the *Rules*:
- (1) a system comprising one or more *integrated resource units* (and which may also comprise one or more *generating units* or other *connected plant* that is not part of an *integrated resource unit*); or
 - (2) a system comprising one or more *generating units* where the *connection point* for the system is used to *supply* electricity for consumption that is not, or is in addition to, *auxiliary load* (but not solely *auxiliary load*).
- (b) For the purposes of clause 2.1B.2(b)(4), clause 4.9.2 and Chapter 5, an *integrated resource system* includes *auxiliary or reactive plant* that is located on the *Integrated Resource Provider's* side of the *connection point* and is necessary for the *integrated resource system* to meet its *performance standards*.

integrated resource unit

A *production unit* that also consumes electricity that is not, or is in addition to, *auxiliary load* of the *production unit*.

market ancillary service bid

A notice submitted by an *Ancillary Service Provider* to *AEMO* in respect of a *market ancillary service* in accordance with clause 3.8.7A.

market integrated resource unit

An *integrated resource unit* that has been classified as such in accordance with Chapter 2.

market load

A *market connection point* other than a *connection point* taken to be a *market connection point* of a *Market Participant* under clause 2.3.4(a).

Note

This term is used in the *National Electricity (South Australia) Regulations*.

minimum ramp rate requirement

The amount specified in clause 3.8.3A(b)(1).

negotiated augmentation and extension charges

The charges described in clause 5.3AA(f)(3).

network dispatch bid

A notice submitted by a *Scheduled Network Service Provider* to *AEMO* relating to the *dispatch* of a *scheduled network service* in accordance with clause 3.8.6A.

Non-Market Integrated Resource Provider

An *Integrated Resource Provider* who has classified an *integrated resource unit* as a *non-market integrated resource unit* in accordance with Chapter 2.

non-market integrated resource unit

An *integrated resource unit* which has been classified as such in accordance with Chapter 2.

Non-Scheduled Integrated Resource Provider

An *Integrated Resource Provider* in relation to any *integrated resource unit* it has classified as a *non-scheduled integrated resource unit* in accordance with Chapter 2.

non-scheduled integrated resource system

An *integrated resource system* comprising *non-scheduled integrated resource units*, or *non-scheduled integrated resource units* and *non-scheduled generating units*.

non-scheduled integrated resource unit

An *integrated resource unit* classified as such in accordance with Chapter 2.

production unit

The *plant* used in the production of electricity and all related equipment essential to its functioning as a single entity.

rated maximum demand

- (a) In relation to an *integrated resource unit*, the maximum amount of *active power* that the *plant* can continuously consume at the *connection point* when operating at its *nameplate rating*.
- (b) In relation to an *integrated resource system*, the combined maximum amount of *active power* that its in-service *integrated resource units* can consume at the *connection point*, when its in-service *integrated resource units* are operating at their *nameplate ratings*.

resource minimum ramp rate requirement

In relation to:

- (a) a *generating unit, scheduled integrated resource unit* or *scheduled load*, means the lower of 3MW/minute or 3% of the maximum *generation* provided in accordance with clause 3.13.3(b); or
- (b) a *scheduled network service*, means 3MW/minute, expressed as MW/minute rounded down to the nearest whole number except where this would result in the nearest whole number being zero, in which case the *resource minimum ramp rate requirement* is 1 MW/minute.

scheduled integrated resource system

An *integrated resource system* comprising *scheduled integrated resource units* or a combination of *scheduled integrated resource units* and other *plant*.

scheduled integrated resource unit

- (a) An *integrated resource unit* that has been classified as such in accordance with Chapter 2.
- (b) For the purposes of Chapter 3 (except clause 3.8.3A(b)(1)(iv)) and rule 4.9, two or more *integrated resource units* referred to in paragraph (a) that have been aggregated in accordance with clause 3.8.3.

Scheduled Integrated Resource Provider

An *Integrated Resource Provider* in relation to any *integrated resource unit* it has classified as a *scheduled integrated resource unit* in accordance with Chapter 2.

scheduled resource

According to context:

- (a) a *scheduled generating unit, a semi-scheduled generating unit, a scheduled integrated resource unit, a wholesale demand response unit, a scheduled network service* or a *scheduled load*; or
- (b) in respect of a *Registered Participant*, a *scheduled generating unit, a semi-scheduled generating unit, a scheduled integrated resource unit, a wholesale demand response unit, a scheduled network service* or a *scheduled load* classified by or in respect to that *Registered Participant* in accordance with Chapter 2.

small integrated resource unit

An *integrated resource unit*:

- (a) with a *nameplate rating* for both production and consumption that is less than 5 MW; and
- (b) which is owned, controlled or operated by a person that *AEMO* has exempted from the requirement to register as an *Integrated Resource Provider* in respect of that *integrated resource unit* in accordance with clause 2.1A.2.

Small Resource Aggregator

An *Integrated Resource Provider* who has classified one or more *connection points* for *small generating units* or *small integrated resource units* as its *market connection points* in accordance with clause 2.2.8.

system strength unit

A *generating unit* or *integrated resource unit* registered with *AEMO* under clause 5.20C.4(b).

[2] Chapter 10 Substituted definitions

In Chapter 10, omit and substitute the following definitions in alphabetical order:

adjusted gross energy

The *adjusted gross energy* determined in accordance with clause 3.15.4.

AEMO intervention event

An event where *AEMO* intervenes in the *market* under the *Rules* by:

- (a) issuing a *direction* in accordance with clause 4.8.9; or
- (b) exercising the *reliability and emergency reserve trader* in accordance with rule 3.20 by:
 - (1) *dispatching scheduled generating units, scheduled integrated resource units, wholesale demand response units, scheduled network services* or *scheduled loads* in accordance with a *scheduled reserve contract*; or
 - (2) *activating unscheduled reserves* available under an *unscheduled reserve contract*.

Affected Participant

- (a) In respect of a particular *direction* in an *intervention pricing 30-minute interval*:
 - (1) a *Scheduled Generator, Integrated Resource Provider* or *Scheduled Network Service Provider*:

- (i) which was not the subject of the *direction*, that had its *dispatched generation* or *dispatched network service* quantity affected by that *direction*; or
 - (ii) which was the subject of the *direction*, that had its *dispatched generation* or *dispatched network service* quantity for other *generating units* or *integrated resource units* or other services which were not the subject of that *direction* affected by that *direction*, however, the *Scheduled Generator*, *Scheduled Integrated Resource Provider* or *Scheduled Network Service Provider* is only an *Affected Participant* in respect of those *generating units* or *integrated resource units* and services which were not the subject of that *direction*; or
 - (2) an *eligible person* entitled to receive an amount from *AEMO* pursuant to clause 3.18.1(b)(1) where there has been a change in flow of a *directional interconnector*, for which the *eligible person* holds units for the *intervention pricing 30-minute period*, as a result of the *direction*; and
- (b) in relation to the exercise of the *RERT* under rule 3.20:
- (1) a *Scheduled Generator*, *Scheduled Integrated Resource Provider* or *Scheduled Network Service Provider*:
 - (i) whose *plant* or *scheduled network service* was not *dispatched* under a *scheduled reserve contract*, that had its *dispatched generation* or *dispatched network service* quantity affected by the *dispatch* of *plant* or *scheduled network service* under that *scheduled reserve contract*; and
 - (ii) who was not the subject of *activation* under an *unscheduled reserve contract*, that had its *dispatched generation* or *dispatched network service* quantity affected by the *activation* of *unscheduled reserves* available under that *unscheduled reserve contract*;
 - (2) a *Scheduled Generator*, *Scheduled Integrated Resource Provider* or *Scheduled Network Service Provider* whose *plant* or *scheduled network service* was *dispatched* under a *scheduled reserve contract*, that had its *dispatched generation* or *dispatched network service* quantity for other *generating units*, *integrated resource units* or other services which were not *dispatched* under the *scheduled reserve contract* affected by that *dispatch* of *plant* or *scheduled network service* under that *scheduled reserve contract*, however, the *Scheduled Generator*, *Scheduled Integrated Resource Provider* or *Scheduled Network Service Provider* is only an *Affected Participant* in respect of those *generating units*, *integrated resource units* and services

which were not *dispatched* under that *scheduled reserve contract*; or

- (3) an *eligible person* entitled to receive an amount from *AEMO* pursuant to clause 3.18.1(b)(1) where there has been a change in flow of a *directional interconnector*, for which the *eligible person* holds units for the *intervention pricing 30-minute period*, as a result of the *dispatch* of *plant* or *scheduled network service* under a *scheduled reserve contract* or the *activation* of *unscheduled reserves* available under an *unscheduled reserve contract*.

Ancillary Service Provider

A person who has, in accordance with Chapter 2, classified a *generating unit*, *integrated resource unit* or other *connected plant* as an *ancillary service unit*.

black start capability

A capability that allows a *generating unit*, *integrated resource unit*, *facility* or a combination of *facilities* following *disconnection* from the *power system*, to be able to deliver electricity to either:

- (a) a *connection point*; or
- (b) a suitable point in the *network* from which *supply* can be made available to other *generating units* or *integrated resource units*,
without taking *supply* from any part of the *power system* following *disconnection*.

central dispatch

The process managed by *AEMO* for the *dispatch* of *scheduled resources* and *market ancillary services* in accordance with rule 3.8.

connection service

An *entry service* (being a service provided to serve a *Generator* or *Integrated Resource Provider* or a group of *Generators* or *Integrated Resource Providers*, or a *Network Service Provider* or a group of *Network Service Providers*, at a single *connection point*) or an *exit service* (being a service provided to serve a *Transmission Customer* or *Distribution Customer*, or a group of *Transmission Customers* or *Distribution Customers*, or a *Network Service Provider* or a group of *Network Service Providers*, at a single *connection point*).

Note:

In the context of Chapter 5A and Part DA of Chapter 6, the above definition has been displaced by a definition specifically applicable to that Chapter. See clause 5A.A.1.

constrained off

- (a) In respect of a *generating unit*, the state where, due to a *constraint* on a *network*, the *loading level* of that *generating unit* is limited below the level to which it would otherwise have been *dispatched* by *AEMO* on the basis of its *dispatch bid*.
- (b) In respect of an *integrated resource unit*, the state where, due to a *constraint* on a *network*, the *loading level* of that *integrated resource unit* is limited below the level to which it would otherwise have been *dispatched* by *AEMO* on the basis of its *dispatch bid*.

constrained on

- (a) In respect of a *generating unit*, the state where, due to a *constraint* on a *network* or in order to provide *inertia network services* under an *inertia services agreement* or *system strength services* under a *system strength services agreement*, the *loading level* of that *generating unit* is limited above the level to which it would otherwise have been *dispatched* by *AEMO* on the basis of its *dispatch bid*.
- (b) In respect of an *integrated resource unit*, the state where, due to a *constraint* on a *network* or in order to provide *inertia network services* under an *inertia services agreement* or *system strength services* under a *system strength services agreement*, the *loading level* of that *integrated resource unit* is limited above the level to which it would otherwise have been *dispatched* by *AEMO* on the basis of its *dispatch bid*.
- (c) In respect of a *wholesale demand response unit*, the state where, due to a *constraint* on a *network*, the *loading level* of that *wholesale demand response unit* is limited above the level to which it would otherwise have been *dispatched* by *AEMO* on the basis of its *dispatch bid*.

Customer

A person who classifies one or more *connection points* as *market connection points* under Chapter 2 and is registered by *AEMO* as a *Customer* under Chapter 2.

Demand Response Service Provider

A person who has classified either or both:

- (a) a *connection point* as a *wholesale demand response unit*; and
- (b) *connected plant* as an *ancillary service unit*,

and who is registered by *AEMO* as a *Demand Response Service Provider* under Chapter 2. The relevant person does not need to be the *Market Customer* for the relevant *connection point*.

Directed Participant

A *Market Participant* the subject of a *direction*.

dispatch

The act of initiating or enabling all or part of the response specified in a *dispatch bid* or *market ancillary service bid* in accordance with rule 3.8, or a *direction* or operation of capacity the subject of a *reserve contract* or an instruction under an *ancillary services agreement* or to *enable* an *inertia network service* or *system strength service* as appropriate.

dispatch bid

A notice submitted by a *Market Participant* to *AEMO* relating to the *dispatch* of a *scheduled resource* in accordance with clause 3.8.6, 3.8.6A or 3.8.7 or a *wholesale demand response dispatch bid*.

dispatch inflexibility profile

Data which may be provided to *AEMO* by *Market Participants*, in accordance with clause 3.8.19, to specify *dispatch inflexibilities* in respect of *scheduled resources* (other than *semi-scheduled generating units*).

dispatchable unit identifier

A unique reference label allocated by *AEMO* for each *scheduled resource* and *ancillary service unit*.

distribution network user access

The *power transfer capability* of the *distribution network* in respect of:

- (a) *generating units* or a group of *generating units*;
- (b) *network elements*; and
- (c) *integrated resource units* or a group of *integrated resource units*,
at a *connection point* which has been negotiated in accordance with rule 5.5.

energy constrained scheduled generating unit

A *scheduled generating unit* in respect of which the amount of electricity it is capable of producing on a *trading day* is less than the amount of electricity it would produce on that *trading day* if it were *dispatched* to its full nominated availability for the whole *trading day*.

energy constraint

A limitation on the ability of a *generating unit* or *integrated resource unit* or group of *generating units* or *integrated resource units* to generate *active*

power due to the restrictions in the availability of fuel, stored energy or other necessary expendable resources such as, but not limited to, gas, coal, or water for operating turbines or for cooling.

entry service

A service provided to serve a *Generator* or *Integrated Resource Provider* or a group of *Generators* or *Integrated Resource Providers*, or a *Network Service Provider* or a group of *Network Service Providers*, at a single *connection point*.

excitation control system

In relation to a *generating unit* or *integrated resource unit*, the automatic *control system* that provides the field excitation for the generator of the *generating unit* or *integrated resource unit* (including excitation limiting devices and any *power system stabiliser*).

financially responsible

In relation to a *market connection point*, a term which is used to describe the *Market Participant* which has done one of the following:

- (a) classified the *market connection point* as one of its *market connection points*;
- (b) classified the *generating unit connected* at the *market connection point* as a *market generating unit*;
- (c) classified the *integrated resource unit connected* at the *market connection point* as a *market integrated resource unit*; or
- (d) classified the *network services* at the *market connection point* as a *market network service*.

generated

In relation to a *generating unit* or *integrated resource unit*, the amount of electricity produced by the *generating unit* or *integrated resource unit* as measured at its terminals.

generating system

- (a) Subject to paragraph (b), for the purposes of the *Rules*, a system comprising one or more *generating units*, other than an *integrated resource system*.
- (b) For the purposes of clause 2.1B.1(a)(3), clause 2.1B.2(b)(4), clause 4.9.2, Chapter 5 and a *jurisdictional derogation* from Chapter 5, a system comprising one or more *generating units* and includes auxiliary or *reactive plant* that is located on the *Generator's* side of

the *connection point* and is necessary for the *generating system* to meet its *performance standards*.

generating unit

- (a) Subject to paragraph (b), a *production unit* that is not an *integrated resource unit*.
- (b) For the purposes of the *Rules*, excluding clauses 2.2.2(a) to (b4), an *integrated resource unit* that has been classified as *scheduled generating unit* under clause 2.2.2(b2) is taken to be a *generating unit*.

generation

According to context:

- (a) The production of electrical power by converting another form of energy in a *generating unit* or *integrated resource unit*.
- (b) The amount of electrical power (measured in MW) produced by a *generating unit* or *integrated resource unit* and measured at its terminals.
- (c) The amount of electrical power (measured in MW) at a defined instant at a *connection point*, or aggregated over a defined set of *connection points*.

Generator

A person who engages in the activity of owning, controlling or operating a *generating system* that is *connected* to, or who otherwise *supplies* electricity to, a *transmission system* or *distribution system* and who is registered by *AEMO* under Chapter 2 as a *Generator* or as an *Integrated Resource Provider*.

For the purposes of Chapter 5, the term includes a person who is required or intends to register in that capacity or a person that owns, controls or operates an *embedded generating unit* who has made an election under clause 5A.A.2(c).

Generator transmission use of system, Generator transmission use of system service

A service provided to a *Generator* or (in relation to its production of electricity) an *Integrated Resource Provider* for:

- (a) **[Deleted]**;
- (b) use of a *transmission investment* for the conveyance of electricity that can be reasonably allocated to a *Generator* or (in relation to its production of electricity) an *Integrated Resource Provider* on a locational basis.

inflexible, inflexibility

In respect of a *scheduled resource* for a *trading interval* means that the *scheduled resource* is only able to be *dispatched* in the *trading interval* at a fixed *loading level* specified in accordance with clause 3.8.19(a).

intermittent

A description of a *generating unit* or *integrated resource unit* whose output is not readily predictable, including, without limitation, solar generators, wave turbine generators, wind turbine generators and hydro-generators without any material storage capability relative to the size of the hydro-generator.

load

According to context:

- (a) the amount of electrical power (in MW) delivered at a defined instant at a *connection point*, or aggregated over a defined set of *connection points*; or
- (b) a *connection point* or defined set of *connection points* at which electrical power is delivered to a person or to another *network*.

market connection point

A *connection point*:

- (a) classified in accordance with Chapter 2 as a *market connection point*;
- (b) which connects any *market generating unit* to the *national grid*;
- (c) which connects any *market integrated resource unit* to the *national grid*; or
- (d) where the *network service connected* at that *connection point* is a *market network service*.

Market Customer

A *Customer* in relation to the *connection points* it has classified as *market connection points* under Chapter 2.

An *Integrated Resource Provider* in relation to the *connection points* it has classified as *market connection points* under clause 2.3.4(b) or (d).

market generating unit

A *generating unit* that has been classified as such in accordance with Chapter 2.

Market Generator

A *Generator* or *Integrated Resource Provider* in relation to *generating units* (other than *small generating units*) it has classified as *market generating units* in accordance with Chapter 2.

Market Participant

A *Market Generator*, *Integrated Resource Provider* (other than a *Non-Market Integrated Resource Provider*), *Market Customer*, *Demand Response Service Provider* or *Market Network Service Provider*.

Market Suspension Compensation Claimant

- (a) A *Scheduled Generator*, *Scheduled Integrated Resource Provider* or a *Demand Response Service Provider* who supplied *energy* or *wholesale demand response* during a *market suspension pricing schedule period*:
 - (1) in a *suspended region*; or
 - (2) in a *region* where *spot prices* were affected in accordance with clause 3.14.5(f); or
- (b) an *Ancillary Service Provider* in a *suspended region*, in respect of an *ancillary service unit* which is also a *scheduled resource*, who provided *market ancillary services* during a *market suspension pricing schedule period*.

Non-Registered Customer

Any person who purchases electricity through a *connection point* with the *national grid* other than from the *spot market*.

Non-Scheduled Generator

A *Generator* or *Integrated Resource Provider* in relation to any *generating units* it has classified as a *non-scheduled generating unit* in accordance with Chapter 2.

non-scheduled load

Any *load* not classified as *scheduled load*.

power station

- (a) In relation to a *Generator*, a *facility* in which any of that *Generator's generating units* are located.
- (b) In relation to an *Integrated Resource Provider*, a *facility* in which any of that *Integrated Resource Provider's generating units* or *integrated resource units* are located.

price band

A MW quantity specified in a *dispatch bid* or *market ancillary service bid* as being available for *dispatch* at a specified price.

primary frequency response

An automatic change in a *generating system's* or *integrated resource system's active power* level, to oppose or arrest *frequency* changes, measured at or behind the *generating system's* or *integrated resource system's connection point*.

rated active power

- (a) In relation to a *generating unit* or *integrated resource unit*, the maximum amount of *active power* that the *generating unit* or *integrated resource unit* can continuously deliver at the *connection point* when operating at its *nameplate rating*.
- (b) In relation to a *generating system* or *integrated resource system*, the combined maximum amount of *active power* that its in-service *generating units* or *integrated resource units* can deliver at the *connection point*, when its in-service *generating units* or in-service *integrated resource units* are operating at their *nameplate ratings*.

response breakpoint

- (a) In relation to a *market ancillary service bid* to raise the *frequency* of the *power system*, the level of associated *generation* or *load* (in MW) above which the amount of response specified in the bid reduces with increased *generation* or *load* level; and
- (b) In relation to a *market ancillary service bid* to lower the *frequency* of the *power system*, the level of associated *generation* or *load* (in MW) below which the amount of response specified in the bid reduces with decreased *generation* or *load* level.

response capability

- (a) In relation to a *market ancillary service bid* to raise the *frequency* of the *power system*, the amount of the response in (MW) which is specified in the bid for every level of associated *generation* or *load* below the associated *response breakpoint*; and
- (b) In relation to a *market ancillary service bid* to lower the *frequency* of the *power system*, the amount of the response in (MW) which is specified in the bid for every level of associated *generation* or *load* above the associated *response breakpoint*.

Scheduled Generator

A *Generator* or *Integrated Resource Provider* in relation to any *generating unit* it has classified as a *scheduled generating unit* in accordance with Chapter 2.

supplementary carbon dioxide equivalent intensity indicator

Any indicators relating to a subset of *scheduled generating units*, *market generating units*, *scheduled integrated resource units* and *market integrated resource units* published by *AEMO* in accordance with clause 3.13.14(h).

synchronous generator voltage control

The automatic *voltage control system* of a *generating unit* or *integrated resource unit* which changes the output *voltage* of the *generating unit* or *integrated resource unit* through the adjustment of the generator rotor current and effectively changes the *reactive power* level from that *generating unit* or *integrated resource unit*.

system strength connection works

Investment in a *transmission system* or *distribution system* in order to remedy or avoid an *adverse system strength impact* arising from establishing a *connection* for a *generating system*, *integrated resource system* or *market network service facility* or from any alteration to a *generating system* or *integrated resource system* to which clause 5.3.9 applies.

system strength impact assessment

Power system studies to assess the impact of the *connection* of a new *generating system*, *integrated resource system* or *market network service facility* or of any proposed alteration to a *generating system* or *integrated resource system* to which clause 5.3.9 applies on the ability under different operating conditions of:

- (a) the *power system* to maintain system stability in accordance with clause S5.1a.3; and
- (b) *generating systems*, *integrated resource systems* and *market network service facilities* forming part of the *power system* to maintain stable operation including following any *credible contingency event* or *protected event*,

so as to maintain the *power system* in a *secure operating state*.

tap-changing transformer

A *transformer* with the capability to allow internal adjustment of output *voltages* which can be automatically or manually initiated and which is used as a major component in the control of the *voltage* of *transmission* and *distribution networks* in conjunction with the operation of *reactive plant*.

The *connection point* of a *generating unit* or *integrated resource unit* may have an associated tap-changing transformer, usually provided by the *Generator* or *Integrated Resource Provider*.

[3] Chapter 10 Glossary

In the definition of "*activate*", after "*generating unit* (other than a *scheduled generating unit*)" insert "or an *integrated resource unit* (other than a *scheduled integrated resource unit*)".

[4] Chapter 10 Glossary

In the definition of "*active power capability*", after "a *generating unit*" insert "or an *integrated resource unit*".

[5] Chapter 10 Glossary

In the definition of "*adverse system strength impact*", in paragraph (b), after "a *generating system*" insert ", *integrated resource system*".

[6] Chapter 10 Glossary

In the definition of "*AGC (automatic generation control system)*", omit "operating on automatic generation control in accordance with clause 3.8.21(d)" and substitute "and *scheduled integrated resource units* operating on automatic generation control".

[7] Chapter 10 Glossary

In the definition of "*available capacity*", after ", *semi-scheduled generating unit*" insert ", *scheduled integrated resource unit*".

[8] Chapter 10 Glossary

In the definition of "*capacity reserve*", after "by the relevant *Generators*" insert "and *Integrated Resource Providers*".

[9] Chapter 10 Glossary

In the definition of "*child connection point*", after "electrical installation, *generating unit*" insert ", *integrated resource unit*".

[10] Chapter 10 Glossary

In the definition of "*constraint, constrained*", after "a *generating unit*" insert ", an *integrated resource unit*".

[11] Chapter 10 Glossary

In the definition of "*continuous uninterrupted operation*", omit the first paragraph and substitute:

In respect of a *generating system, generating unit, integrated resource system* or *integrated resource unit* operating immediately prior to a *power system* disturbance:

[12] Chapter 10 Glossary

In the definition of "*control system*", after "including *generating units*" insert "and *integrated resource units*".

[13] Chapter 10 Glossary

In the definition of "*dedicated connection asset*", in paragraph (d)(2), after "part of a *generating system*" insert "or *integrated resource system*".

[14] Chapter 10 Glossary

In the definition of "*DER generation information*", after "a *small generating unit*" insert "or *small integrated resource unit*".

[15] Chapter 10 Glossary

In the definition of "*DER Technical Standards*", after "for *embedded generating units*" insert "and *embedded integrated resource units*".

[16] Chapter 10 Glossary

In the definition of "*de-synchronising / de-synchronisation*", after "a *generating unit*" insert "or *integrated resource unit*".

[17] Chapter 10 Glossary

In the definition of "*dispatch bid price*", after "The price submitted" insert "by a *Market Participant*".

[18] Chapter 10 Glossary

In the definition of "*dispatched load*", after "*dispatched wholesale demand response*" insert "or in relation to an *integrated resource unit, dispatched generation*".

[19] Chapter 10 Glossary

In the definition of "*Distribution Network User*", after "A *Distribution Customer*" insert ", an *Embedded Integrated Resource Provider*".

[20] Chapter 10 Glossary

In the definition of "*Embedded Generator*", after "A *Generator*" insert "or *Integrated Resource Provider*".

[21] Chapter 10 Glossary

In the definition of "*enable*", omit "*generating unit or load*" and substitute "*ancillary service unit*".

[22] Chapter 10 Glossary

In the definition of "*enablement limit*", omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

[23] Chapter 10 Glossary

In the definition of "*energise*", after "start-up of a *generating unit*" insert "or *integrated resource unit*".

[24] Chapter 10 Glossary

In the definition of "*energy constrained scheduled load*", omit "can take" and substitute "is capable of consuming".

[25] Chapter 10 Glossary

In the definition of "*energy support arrangement*", after "between a Generator" insert ", Integrated Resource Provider".

[26] Chapter 10 Glossary

In the definition of "*expected closure year*", omit "clause 2.2.1(e)(2A)" and substitute "clause 2.1B.3(a)".

[27] Chapter 10 Glossary

In the definition of "*facilities*", omit paragraph (a) and substitute:

- (a) a *power station, generating system or integrated resource system*;

[28] Chapter 10 Glossary

In the definition of "*frequency response mode*", after "*generating unit*" insert "or *integrated resource unit*".

[29] Chapter 10 Glossary

In the definition of "*GELF parameters*", after "*Scheduled Generator*" insert "or *Scheduled Integrated Resource Provider*".

[30] Chapter 10 Glossary

In the definition of "*generation centre*", omit "a *generating unit or generating units*" and substitute "*facilities*".

[31] Chapter 10 Glossary

In the definition of "*generation shedding*", omit "a *generating systems* or *generating units*" and substitute "sources of *generation*".

[32] Chapter 10 Glossary

In the definition of "*Generator Energy Limitation Framework (GELF)*", after "a *scheduled generating unit*" insert "or *scheduled integrated resource unit*".

[33] Chapter 10 Glossary

In the definition of "*inertia*", after "from a *generating unit*," insert "*integrated resource unit*".

[34] Chapter 10 Glossary

In the definition of "*intermediary*", after "*AEMO as a Generator*" insert ", *Integrated Resource Provider*".

[35] Chapter 10 Glossary

In the definition of "*intermittent*", after "without any material storage capability" insert "relative to the size of the hydro-generator".

[36] Chapter 10 Glossary

In the definition of "*key connection information*", in paragraph (b), after "(e.g. gas turbine *generating unit*)" insert "or *integrated resource unit*".

[37] Chapter 10 Glossary

In the definition of "*key connection information*", in paragraph (f), after "relevant *generating unit*" insert "or *integrated resource unit*".

[38] Chapter 10 Glossary

In the definition of "*loading level*", after "of a *generating unit*," insert "*integrated resource unit*".

[39] Chapter 10 Glossary

In the definition of "*loading price*", omit "*dispatch offer*" and substitute "*dispatch bid*".

[40] Chapter 10 Glossary

In the definition of "*market suspension pricing schedule period*", in subparagraph (a)(1), after "for Scheduled Generators" insert "and Integrated Resource Providers".

[41] Chapter 10 Glossary

In the definition of "*market suspension pricing schedule period*", in subparagraph (a)(2), omit "*ancillary service generating unit*" and substitute "*ancillary service unit*".

[42] Chapter 10 Glossary

In the definition of "*network support payment*", in subparagraph (a)(1), after "any Generator" insert "or *Integrated Resource Provider*".

[43] Chapter 10 Glossary

In the definition of "*Network User*", after "A Generator," insert "an *Integrated Resource Provider*,".

[44] Chapter 10 Glossary

In the definition of "*non-market generating unit*", omit "whose entire output is consumed by a *market load* located at the same *connection point* and".

[45] Chapter 10 Glossary

In the definition of "*Non-Market Generator*", after "A Generator" insert "or *Integrated Resource Provider*".

[46] Chapter 10 Glossary

In the definition of "*Non-Scheduled Generator*", omit "A Generator in respect of which any *generating unit* is" and substitute "A Generator or *Integrated Resource Provider* in relation to any *generating unit* it has".

[47] Chapter 10 Glossary

In the definition of "*off-loading price*", omit "*dispatch offer*" and substitute "*dispatch bid*".

[48] Chapter 10 Glossary

In the definition of "*PASA availability*", after "a *scheduled generating unit*," insert "*scheduled integrated resource unit*,".

[49] Chapter 10 Glossary

In the definition of "*performance standards commencement date*", in paragraph (a), after "Generators," insert "Integrated Resource Providers,".

[50] Chapter 10 Glossary

In the definition of "*performance standards commencement date*", in paragraph (b), after "Generators," insert "Integrated Resource Providers,".

[51] Chapter 10 Glossary

In the definition of "*planned network event*", in paragraph (b), after "*disconnection of generating units*" insert "*, integrated resource units*".

[52] Chapter 10 Glossary

In the definition of "*performance standards commencement date*", after "*Generators*," wherever mentioned insert "*Integrated Resource Providers*".

[53] Chapter 10 Glossary

In the definition of "*plant*", in paragraph (a), after "involved in generating," insert "*supplying*".

[54] Chapter 10 Glossary

In the definition of "*plant*", omit paragraph (b) and substitute:

- (b) In relation to *dispatch bids, scheduled resources*.

[55] Chapter 10 Glossary

In the definition of "*plant*", in paragraph (c), after "individually controllable generating" insert "and integrated resource".

[56] Chapter 10 Glossary

In the definition of "*plant*", after paragraph (f) insert:

- (g) In relation to a *market ancillary service*, includes all equipment involved in providing the *market ancillary service*.

[57] Chapter 10 Glossary

In the definition of "*plant availability*", after "a *generating unit*" insert "or *integrated resource unit*".

[58] Chapter 10 Glossary

In the definition of "*reactive power capability*", after "a *generating unit*" insert "or *integrated resource unit*".

[59] Chapter 10 Glossary

In the definition of "*rebid*", omit "or offer".

[60] Chapter 10 Glossary

In the definition of "*regulating duty*", after "a *generating unit*" insert "or *integrated resource unit*".

[61] Chapter 10 Glossary

In the definition of "*releasable user guide*", in paragraph (5), after "*generating system*" insert "*, integrated resource unit or integrated resource system*".

[62] Chapter 10 Glossary

In the definition of "*releasable user guide*", omit paragraph (7) and substitute:

- (7) in regards to any relevant *generating unit, integrated resource unit, generating system* or *integrated resource system*, the date on which any of the following has occurred or is expected to occur:
 - (i) an *application to connect* is made under clause 5.3.4(a);
 - (ii) a *connection agreement* is entered into under clause 5.3.7;
 - (iii) the *Generator* or *Integrated Resource Provider* submits a proposal to alter a *connected generating system* or a *generating system*, or a *connected integrated resource system* or *integrated resource system*, for which *performance standards* have previously been accepted by *AEMO*, under clause 5.3.9;
 - (iv) the *Generator* or *Integrated Resource Provider* is notified that the *Network Service Provider* and *AEMO* are satisfied with the proposed alterations to the *generating plant* or other *plant* under clause 5.3.10;
 - (v) *connection*;
 - (vi) commencement of commissioning; and
 - (vii) conclusion of commissioning; and

[63] Chapter 10 Glossary

In the definition of "*scheduled load*", omit paragraph (a) and substitute:

- (a) *Plant* which has been classified by *AEMO* in accordance with Chapter 2 as a *scheduled load*.

[64] Chapter 10 Glossary

In the definition of "*scheduled reserve*", after paragraph (a), insert:

- (a1) of *scheduled integrated resource units*;

[65] Chapter 10 Glossary

In the definition of "*self-dispatch level*", omit "*dispatch offer*" and substitute "*dispatch bid*".

[66] Chapter 10 Glossary

In the definition of "*Semi-Scheduled Generator*", after "A *Generator*" insert "or *Integrated Resource Provider*".

[67] Chapter 10 Glossary

In the definition of "*sent out generation*", after "a *generating unit*" insert "or *integrated resource unit*".

[68] Chapter 10 Glossary

In the definition of "*small generating unit*", omit paragraph (b) and substitute:

- (b) which is owned, controlled or operated by a person that *AEMO* has exempted from the requirement to register as a *Generator* or *Integrated Resource Provider* in respect of that *generating unit* in accordance with clause 2.1A.2.

[69] Chapter 10 Glossary

In the definition of "*SRAS (system restart ancillary service)*", after "restart of *generating units*" insert "or *integrated resource units*".

[70] Chapter 10 Glossary

In the definition of "*supply scarcity mechanism*", omit paragraph (a) and substitute:

- (a) exercising the *RERT* in accordance with rule 3.20 by:
 - (1) *dispatching scheduled generating units, scheduled integrated resource units, wholesale demand response units, scheduled network services or scheduled loads* in accordance with any *scheduled reserve contract*; or
 - (2) *activating unscheduled reserves* under any *unscheduled reserve contract*;

[71] Chapter 10 Glossary

In the definition of "*switchyard*", after all references to "*generating unit*" insert "or *integrated resource unit*".

[72] Chapter 10 Glossary

In the definition of "*synchronise*", after "a *generating unit*" insert ", *integrated resource unit*".

[73] Chapter 10 Glossary

In the definition of "*synchronising*", after "a *generating unit*" insert ", *integrated resource unit*".

[74] Chapter 10 Glossary

In the definition of "*Transmission Customer*", after "*Non-Registered Customer*" insert "*Integrated Resource Provider* in relation to *supply* to an *integrated resource unit*".

[75] Chapter 10 Glossary

In the definition of "*Transmission Network User*", after paragraph (a) insert:

- (a1) an *Integrated Resource Provider* whose *generating unit* or *integrated resource unit*;

[76] Chapter 10 Glossary

In the definition of "*unscheduled reserve*", after paragraph (a) insert:

- (a1) of *integrated resource units* (other than *scheduled integrated resource units*); or

[77] Chapter 10 Glossary

In the definition of "*wholesale demand response*", omit "*connection point* of the".

[78] Chapter 10 Glossary

In the definition of "*wholesale demand response unit*", in paragraph (a), omit "*load*" and substitute "*connection point*".

[79] Chapter 10 Omitted definitions

In chapter 10, omit the following definitions:

- ancillary service generating unit*
- ancillary service load*
- bid and offer validation data*
- default dispatch bid*
- default dispatch offer*
- dispatch offer*
- dispatch offer price*
- First-Tier Customer*
- first-tier load*
- generating unit minimum ramp rate requirement*
- generation dispatch offer*
- inertia generating unit*
- intending load*
- market ancillary service offer*

Market Small Generation Aggregator

negotiated use of system charges

network dispatch offer

scheduled plant

Second-Tier Customer

second-tier load

Small Generation Aggregator

system strength generating unit

Schedule 4 Savings and Transitional Amendment to the National Electricity Rules

(Clause 6)

[1] New Part [XXX] Integrating energy storage systems into the NEM

In Chapter 11, after Part [XXX], insert a new Part:

Part [XXX] Integrating energy storage systems into the NEM

11.[XXX] Rules consequential on the making of the National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021

11.[XXX].1 Definitions

- (a) In this rule 11.[XXX]:

Amending Rule means the *Draft National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021*.

Contracts and Firmness Guideline has the meaning in Chapter 4A.

effective date means the date of commencement of Schedules 1 to 3 of the Amending Rule.

existing application to connect has the meaning given in clause 11.[xxx].12(a)(1).

existing connection agreement means a *connection agreement* entered into before the effective date.

existing connection enquiry has the meaning given in clause 11.[xxx].11(a)(1).

new Chapter 2 means Chapter 2 as in force on and from the effective date.

new Chapter 5 means Chapter 5 as in force on and from the effective date.

new Chapter 10 means Chapter 10 as in force on and from the effective date.

new exemption guidelines means the guidelines made under clause 2.1A.2 of the new rules.

new rule 2.9B means rule 2.9B as in force on and from the effective date.

new rules means the *Rules* as in force on and from the effective date.

old Chapter 2 means Chapter 2 as in force immediately prior to the effective date.

old Chapter 5 means Chapter 5 as in force immediately prior to the effective date.

old Chapter 10 means Chapter 10 as in force immediately prior to the effective date.

old exemption guidelines means the guidelines made under clause 2.2.1(b) of the old rules.

old rules means the *Rules* as in force immediately prior to the effective date.

Opt-in Guidelines has the meaning in Chapter 4A.

registration transfer date means the date 6 months after the effective date.

- (b) Subject to paragraph (c), italicised terms used in this rule 11.[XXX] have the same meaning as in new Chapter 10.
- (c) The following terms used in this rule 11.[XXX] have the meaning given in old Chapter 10: *ancillary service generating unit, ancillary service load, Small Generation Aggregator, market load*.

11.[XXX].2 Transferring registrations and reclassifications

- (a) This clause applies to a *Registered Participant* who immediately before the effective date is registered as a *Generator* in relation to an *integrated resource system* and a *Customer* in relation to the same *integrated resource system*.
- (b) By the registration transfer date, a *Registered Participant* to whom this clause applies must apply to *AEMO* under new rule 2.9B to change its registration category to *Integrated Resource Provider* and to classify each *integrated resource unit* comprised in its *integrated resource system* in accordance with new Chapter 2.

Note

The AEMC proposes to recommend that clause 11.[xxx].2 be classified as a Tier 2 civil penalty provision under the National Electricity (South Australia) Regulations. (See clause 6 and Schedule 1 of the National Electricity (South Australia) Regulations.)

- (c) *AEMO* must not charge a fee for an application made in accordance with paragraph (b).
- (d) *AEMO* and a *Registered Participant* to whom this clause applies must use reasonable endeavours to complete the change in registration category and reclassification within 3 months after the registration transfer date.

11.[XXX].3 Small Generation Aggregators to become Small Resource Aggregators

- (a) On and from the effective date, a person who immediately before the effective date is registered with *AEMO* as a *Small Generation Aggregator* in respect of a *small generating unit* is taken:
 - (1) to be registered with *AEMO* as an *Integrated Resource Provider*; and
 - (2) to be a *Small Resource Aggregator* in respect of each of the *small generating units* classified by the *Small Generation Aggregator* immediately prior to the effective date.
- (b) A *generating unit* classified as a *small generating unit* immediately before the effective date continues to be classified as a *small generating unit* on and from the effective date.
- (c) On and from the effective date, registrations and classifications referred to in paragraphs (a) and (b) are subject to new Chapter 2 as if they had been made under new Chapter 2.
- (d) *AEMO* must, promptly after the effective date, amend its register of *Registered Participants* to take into account this clause and notify the relevant *Registered Participant* of the change in its registration under this rule 11.[XXX].3.

11.[XXX].4 Continuing registrations and classifications

- (a) A person who immediately before the effective date is registered with *AEMO* as a *Generator* under old Chapter 2 continues to be registered as a *Generator* under new Chapter 2 on and from the effective date.
- (b) A *generating unit* that immediately before the effective date is classified under old Chapter 2 continues to have the same classification under new Chapter 2 on and from the effective date.
- (c) Despite new clause 2.2.5(a), a *generating unit* that immediately before the effective date is classified as a *non-market generating unit* under old Chapter 2 continues to be classified as a *non-market generating unit* under new Chapter 2.
- (d) A person who immediately before the effective date is registered with *AEMO* as a *Customer* under old Chapter 2 continues to be registered as a *Customer* under new Chapter 2.
- (e) The *connection point* for a *load* that immediately before the effective date is a *market load* of a *Market Participant* under the old rules is taken to be classified on and from the effective date as a *market connection point* of the *Market Participant* under clause 2.3.4 of the new rules.

- (f) A *load, connection point* or *connected plant* that immediately before the effective date is a *scheduled load* of a *Market Participant* under the old rules is taken to be classified on and from the effective date as a *scheduled load* of the *Market Participant* under clause 2.3.4A of the new rules with respect to the relevant *connected plant*.
- (g) In relation to a *generating unit* that immediately before the effective date is classified as an *ancillary service generating unit* under clause 2.2.6 of the old rules:
 - (1) the *generating unit* is taken on and from the effective date to be classified as an *ancillary service unit* under clause 2.3D.1 of the new rules; and
 - (2) any conditions imposed by *AEMO* under clause 2.2.6(f) of the old rules in relation to the classification under clause 2.2.6 of the old rules are taken on and from the effective date to be conditions imposed by *AEMO* under clause 2.3D.1(f) of the new rules in relation to the *ancillary service unit*.
- (h) In relation to a *load* that immediately before the effective date is classified as an *ancillary service load* under clause 2.3.5 of the old rules:
 - (1) the *connected plant* at the *connection point* for the *load* the subject of the classification is taken on and from the effective date to be classified as an *ancillary service unit* under clause 2.3D.1 of the new rules; and
 - (2) any conditions imposed by *AEMO* under clause 2.3.5(f) of the old rules in relation to the classification under clause 2.3.5 of the old rules are taken on and from the effective date to be conditions imposed by *AEMO* under clause 2.3D.1(f) of the new rules.
- (i) A *Market Participant* who immediately before the effective date is an *Ancillary Service Provider* under the old rules continues on and from the effective date to be an *Ancillary Service Provider* under the new rules.
- (j) A person who immediately before the effective date is registered with *AEMO* as a *Demand Response Service Provider* under old Chapter 2 continues on and from the effective date to be registered as a *Demand Response Service Provider* under new Chapter 2.
- (k) A *qualifying load* that immediately before the effective date is classified as a *wholesale demand response unit* under old rule 2.3.6 continues on and from the effective date to be classified as a *wholesale demand response unit* under new rule 2.3.6.
- (l) Registrations and classifications referred to in this clause are subject to:

- (1) new Chapter 2 on and from the effective date as if the registration or classification had been made under new Chapter 2; and
- (2) changes in registration and classification following an application made in accordance with clause 11.[XXX].2.

11.[XXX].5 Applications under Chapter 2 lodged before the effective date

- (a) This clause applies in relation to any application (including an application for registration or classification) submitted to *AEMO* under old Chapter 2 before the effective date that has not been finally determined by *AEMO* before the effective date.
- (b) On and from the effective date an application to which this clause applies is subject to new Chapter 2.

11.[XXX].6 Generating units registered with AEMO for services

- (a) A *generating unit* that immediately before the effective date is a *system strength generating unit* under the old rules is taken, on and from the effective date, to be a *system strength unit* under the new rules.
- (b) A *generating unit* that immediately before the effective date is an *inertia generating unit* under the old rules is taken, on and from the effective date, to be an *inertia unit* under the new rules.

11.[XXX].7 Exemptions from registration

- (a) By the effective date *AEMO* must:
 - (1) review the old exemption guidelines to take into account the Amending Rule; and
 - (2) remake and *publish* the old exemption guidelines as the initial new exemption guidelines.
- (b) A person exempt under the old exemption guidelines immediately before the effective date is taken, on and from the effective date, to be exempt under the new exemption guidelines to the same extent, and on the same conditions as the exemption under the old exemption guidelines.
- (c) An exemption referred to in paragraph (b) may be amended or revoked in accordance with the new rules.

11.[XXX].8 Amendments to AEMO documents

- (a) By the effective date *AEMO* must review and where *AEMO* considers it necessary or desirable amend and *publish* procedures, guidelines

and other documents published by *AEMO* under the *Rules* to take into account the Amending Rule.

- (b) Without limiting paragraph (a), *AEMO* must by the effective date review and update the following documents to take into account the Amending Rule:
 - (1) the *ISP database* including by updating the inputs for *Integrated Resource Providers*;
 - (2) the *market suspension compensation methodology*;
 - (3) the *DER register information guidelines*, including to specify the minimum size of *small generating units* and *small integrated resource units* for which a *Network Service Provider* is required to provide *DER generation information*; and
 - (4) the *Power System Model Guidelines*, the *Power System Design Data Sheet* and the *Power System Setting Data Sheet*.
- (c) In amending the documents referred to in paragraphs (a) and (b), *AEMO* must follow the process for amending those documents (if any) specified in the *Rules*.
- (d) Amendments made in accordance with paragraph (a) and (b) must take effect on and from the applicable date specified in paragraph (a) or (b) or any earlier time specified by *AEMO*.

11.[XXX].9 Amendments to AER documents

- (a) By the effective date the *AER* must review and where *AER* considers it necessary or desirable amend and *publish* procedures, guidelines or documents published by *AER* under the *Rules* to take into account the Amending Rule.
- (b) Without limiting paragraph (a), *AEMO* must by the effective date review and update the following documents to take into account the Amending Rule:
 - (1) the *Contracts and Firmness Guideline*; and
 - (2) the *Opt-in Guidelines*.
- (c) In amending the procedures and guidelines referred to in paragraphs (a) and (b) the *AER* must follow the process for amending those procedures and guidelines (if any) specified in the *Rules*.
- (d) Amendments made in accordance with paragraph (a) must take effect on and from the applicable date specified in paragraph (a) or any earlier time specified by the *AER*.

11.[XXX].10 Amendments to template for generator compliance programs

- (a) By the effective date the *Reliability Panel* must review and amend and *publish* the *template for generator compliance programs* to take into account the Amending Rule.
- (b) In amending the *template for generator compliance programs* under paragraph (a), the *Reliability Panel* must follow the process for amending the template as specified in the *Rules*.
- (c) Amendments made in accordance with paragraph (a) must take effect on and from the applicable date specified in paragraph (a) or any earlier time specified by the *Reliability Panel*.

11.[XXX].11 Application of the Amending Rule to existing connection enquiries

- (a) This clause applies where, before the effective date, a *Connection Applicant* has, in respect of *plant* that the *Connection Applicant* proposes to *connect*:
 - (1) made a *connection* enquiry in accordance with clauses 5.3.2 or 5.3A.5 (**existing connection enquiry**); and
 - (2) not made an *application to connect* to a *Network Service Provider*.
- (b) On and from the effective date:
 - (1) new Chapter 5 applies for the purposes of determining the *access standards* that apply to the *plant* that the *Connection Applicant* proposes to *connect*;
 - (2) the existing connection enquiry will be taken to be a valid *connection* enquiry under the new Chapter 5 with respect to the proposed *plant*; and
 - (3) the *Network Service Provider* must:
 - (i) within 10 *business days* after the effective date, use its reasonable endeavours to provide written notification to a *Connection Applicant* to which this clause applies that the existing connection enquiry will be treated as a *connection* enquiry under new Chapter 5; and
 - (ii) within 20 *business days* after providing the written notification in subparagraph (3)(i), in consultation with *AEMO* and where necessary, provide each *Connection Applicant* notified under subparagraph (3)(i) with:

- (A) any further information required under clause 5.3.3 of new Chapter 5 relevant to the proposed *plant*; and
- (B) written notice of any further information or data to be provided by the *Connection Applicant* to the *Network Service Provider*,

to enable the *Connection Applicant* to submit an *application to connect* in accordance with new Chapter 5 with respect to the proposed *plant*.

- (c) Where the *Network Service Provider* has charged the *Connection Applicant* any fees or charges with respect to the existing connection enquiry, the *Network Service Provider* must not charge the *Connection Applicant* any additional fees or charges on or from the effective date with respect to such existing *connection* enquiry, except to the extent necessary to cover the reasonable costs of work required to notify the *Connection Applicant* and provide any relevant information under subparagraph (b)(3)(ii). For the avoidance of doubt, this clause does not preclude a *Network Service Provider* recovering an application fee from the *Connection Applicant* under clauses 5.3.4(b) or 5.3A.9.

11.[XXX].12 Application of the Amending Rule to existing applications to connect

- (a) This clause applies where, before the effective date, a *Connection Applicant* has, in respect of *plant* that the *Connection Applicant* proposes to *connect*:
 - (1) made an *application to connect* to a *Network Service Provider* (**existing application to connect**); and
 - (2) not received an offer to *connect* from the relevant *Network Service Provider* in respect of the existing application to connect.
- (b) On and from the effective date:
 - (1) new Chapter 5 applies for the purposes of determining the *access standards* that apply to the *plant* that the *Connection Applicant* proposes to *connect*;
 - (2) the existing application to connect will be taken to be a valid *application to connect* under new Chapter 5 with respect to the proposed *plant*; and
 - (3) the *Network Service Provider* must:
 - (i) within 10 *business days* after the effective date, use its reasonable endeavours to provide written notification to a *Connection Applicant* to which this clause applies that

the existing application to connect will be treated as an *application to connect* under new Chapter 5; and

- (ii) within 20 *business days* after providing the written notification in subparagraph (3)(i), in consultation with *AEMO* and where necessary, provide each *Connection Applicant* notified under subparagraph (3)(i) (with a copy to be provided to *AEMO*) with:
 - (A) any further information required under clause 5.3.3 or clause 5.3A.5 of new Chapter 5 relevant to the proposed *plant*, including for each technical requirement, written details of the *automatic access standards*, *minimum access standards* and *negotiated access standards* that are *AEMO advisory matters*; and
 - (B) written notice of any further information to be provided by the *Connection Applicant* (which may include information required to be provided under clauses 5.2.5(d) and (e), clauses 5.2.5A(d) and (e) and Schedule 5.5),

necessary for the *Network Service Provider* to prepare an offer to *connect* in accordance with new Chapter 5 with respect to the proposed *plant*.

- (c) Where the *Network Service Provider* has charged the *Connection Applicant* any fees or charges with respect to the existing application to connect, the *Network Service Provider* must not charge the *Connection Applicant* any additional fees or charges on or from the effective date with respect to such existing application to connect, except to the extent necessary to cover the reasonable costs of work required for the *Network Service Provider* to prepare an offer to *connect* in accordance with new Chapter 5, including the requirements to notify the *Connection Applicant* and provide any relevant information under subparagraph (b)(3).
- (d) A *Network Service Provider* to which this clause applies may extend the time period referred to in clause 5.3.6(a) to reasonably allow for any additional time taken in excess of the period allowed in the *preliminary program* that is necessary to take account of the differences in *access standards* between old Chapter 5 and new Chapter 5.

11.[XXX].13 Application of the Amending Rule to existing offers to connect

- (a) This clause applies where, before the effective date, a *Connection Applicant*:

- (1) has received a valid offer to *connect* from the relevant *Network Service Provider* in respect of an *application to connect*; and
 - (2) has not entered into a *connection agreement* with the relevant *Network Service Provider* in respect of that *application to connect*.
- (b) On and from the effective date, old Chapter 5 applies for the purposes of determining the *access standards* that apply to the *plant* that the *Connection Applicant* proposes to *connect* under that offer to *connect*.

11.[XXX].14 Application of the Amending Rule to existing connection agreements

- (a) The Amending Rule is neither intended to, nor to be read or construed as having, the effect of:
- (1) altering the terms of an existing connection agreement;
 - (2) altering the contractual rights or obligations of any of the parties under an existing connection agreement; or
 - (3) relieving the parties under any such existing connection agreement of their contractual obligations under such an agreement.
- (b) If, after the effective date, a *Generator* who has entered into an existing connection agreement is required, in accordance with the *Rules*, to amend any of the *performance standards* set out in that existing connection agreement, new Chapter 5 applies for the purposes of amending such *performance standards*.