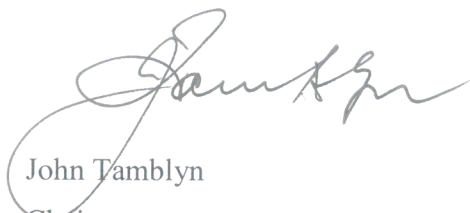


## **National Electricity Amendment (Ramp Rates, Market Ancillary Service Offers, and Dispatch Inflexibility) Rule 2009 No. 1**

under the National Electricity Law as applied by:

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

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

A handwritten signature in black ink, appearing to read 'John Tamblyn', is written over a large, faint circular watermark or background element.

John Tamblyn  
Chairman

Australian Energy Market Commission

## **National Electricity Amendment (Ramp Rates, Market Ancillary Service Offers, and Dispatch Inflexibility) Rule 2009 No. 1**

### **1. Title of Rule**

This Rule is the *National Electricity Amendment (Ramp Rates, Market Ancillary Service Offers, and Dispatch Inflexibility) Rule 2009 No. 1*.

### **2. Commencement**

This Rule commences operation on 31 March 2009.

### **3. Amendment of the National Electricity Rules**

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

### **4. Amendment of the National Electricity Rules consequent on the commencement of the National Electricity Amendment (Central Dispatch and Integration of Wind and Other Intermittent Generation) Rule 2008 No. 2**

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

### **5. Notes**

Notes do not form part of this Rule.

## Schedule 1      Amendment of National Electricity Rules

(Clause 3)

### [1]      New Clause 3.8.3A      Ramp rates

After clause 3.8.3, insert:

#### 3.8.3A Ramp rates

- (a) This clause 3.8.3A applies to a *Scheduled Generator, Semi-Scheduled Generator* or *Market Participant* with *generating units, scheduled network services* and/or *scheduled loads* providing *ramp rates* to *NEMMCO* in accordance with the following clauses:
- (1) with respect to notification of scheduled capacity prior to *dispatch*:
    - (i) clause 3.8.4(c);
    - (ii) clause 3.8.4(e);
    - (iii) clause 3.8.4(d);
  - (2) with respect to offers for *dispatch*:
    - (i) clause 3.8.6(b);
    - (ii) clause 3.8.6A(b);
    - (iii) clause 3.8.7(c); and
  - (3) with respect to *rebids*, clause 3.8.22(b).
- Note:** Clause 3.8.3(d) applies to this clause 3.8.3A.
- (b) Subject to clauses 3.8.3A(c) and 3.8.3A(i), a *Scheduled Generator, Semi-Scheduled Generator* or *Market Participant* to which this clause 3.8.3A applies must provide an up *ramp rate* and a down *ramp rate* to *NEMMCO* for each *generating unit, scheduled network service* and/or *scheduled load* that is:
- (1) at least:
    - (i) 3MW/minute in the case of a *scheduled network service* or *scheduled load*; or

- (ii) the lower of:
  - (A) 3MW/minute or 3% of the registered full *load* (MW generated) in the case of a *scheduled generating unit*; or
  - (B) 3MW/minute or 3% of the registered capacity in the case of a *semi-scheduled generating unit*,  
  
provided in accordance with clause 3.13.3(b), 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 up *ramp rate* and/or down *ramp rate* is deemed to be 1 MW/minute; and
- (2) at most the relevant *maximum ramp rate* provided in accordance with clause 3.13.3(b).
- (c) A *Scheduled Generator, Semi-Scheduled Generator* or *Market Participant* to which this clause 3.8.3A applies may provide a *ramp rate* to *NEMMCO* that is less than that specified in clause 3.8.3A(b)(1) if the *ramp rate* is affected by an event or other occurrence that:
  - (1) physically prevents the relevant *generating unit, scheduled load* or *scheduled network service* from attaining a *ramp rate* of at least that specified in clause 3.8.3A(b)(1); or
  - (2) makes it unsafe for the relevant *generating unit, scheduled load* or *scheduled network service* to operate at a *ramp rate* of at least that specified in clause 3.8.3A(b)(1),  
  
for the period of time in which the *ramp rate* is so affected by that event or other occurrence.
- (d) If a *Scheduled Generator, Semi-Scheduled Generator* or *Market Participant* to which this clause 3.8.3A applies provides a *ramp rate* that is less than that specified in clause 3.8.3A(b)(1), it must provide a *ramp rate* to *NEMMCO* that is the maximum the relevant *generating unit, scheduled load* or *scheduled network service* can safely attain at that time.
- (e) If a *Scheduled Generator, Semi-Scheduled Generator* or *Market Participant* to which this clause 3.8.3A applies provides a *ramp rate* that is less than that specified in clause 3.8.3A(b)(1), it must simultaneously provide *NEMMCO* with a brief, verifiable and specific reason why the *ramp rate* is below that specified in clause 3.8.3A(b)(1).

- (f) The *AER* may require, upon written request, the *Scheduled Generator*, *Semi-Scheduled Generator* or *Market Participant* to provide such additional information as it may require from time to time to substantiate and verify the reason provided in clause 3.8.3A(e).
- (g) The *AER* must exercise its powers under clause 3.8.3A(f) in accordance with any guidelines issued by the *AER* from time to time in accordance with the *Rules consultation procedures*.
- (h) If a *Scheduled Generator*, *Semi-Scheduled Generator* or *Market Participant* to which this clause 3.8.3A applies provides a *maximum ramp rate* in accordance with clause 3.13.3(b) of less than that specified in clause 3.8.3A(b)(1), it must provide *NEMMCO* with a brief, verifiable and specific reason why the *ramp rate* is below that specified in clause 3.8.3A(b)(1).
- (i) Clauses 3.8.3A(b), 3.8.3A(c) and 3.8.3A(e) do not apply to a *Scheduled Generator*, *Semi-Scheduled Generator* or *Market Participant* to which this clause 3.8.3A applies if:
  - (1) it has provided a *maximum ramp rate* in accordance with clause 3.13.3(b) which is less than that specified in clause 3.8.3A(b)(1); and
  - (2) it has notified *NEMMCO* of this in accordance with clause 3.8.3A(h).
- (j) In addition to the obligations in clause 3.8.3A(d), if clause 3.8.3A(i) applies, the *Scheduled Generator*, *Semi-Scheduled Generator* or *Market Participant* must only provide *ramp rates* that are, at most, the *maximum ramp rate* for the relevant *generating unit*, *scheduled load* or *scheduled network service* in accordance with clause 3.13.3(b).

## **[2] Clause 3.8.4 Notification of scheduled capacity**

In clause 3.8.4(c)(4), omit “*ramp rate constraints*”, and substitute “an up *ramp rate* and a down *ramp rate*”.

**Note:** This is a civil penalty provision.

**[3] Clause 3.8.4 Notification of scheduled capacity**

In clause 3.8.4(d)(3), omit “*ramp rate constraints*”, and substitute “an up *ramp rate* and a down *ramp rate*”.

**Note:** This is a civil penalty provision.

**[4] Clause 3.8.4 Notification of scheduled capacity**

In clause 3.8.4(e)(2), omit “*ramp rate constraints*”, and substitute “an up *ramp rate* and a down *ramp rate*”.

**Note:** This is a civil penalty provision.

**[5] Clause 3.8.6A Scheduled network service offers for dispatch**

In clause 3.8.6A(b)(2), omit “a MW/min *ramp rate* capability”, and substitute “an up *ramp rate* and a down *ramp rate*”.

**[6] Clause 3.8.7 Bids for scheduled load**

In clause 3.8.7(c)(2), omit “a MW/min *ramp rate* capability”, and substitute “an up *ramp rate* and a down *ramp rate*”.

**[7] Clause 3.8.7A Market ancillary services offers**

In clause 3.8.7A(j)(3), after “*capability*,” omit “and”.

**[8] Clause 3.8.7A Market ancillary services offers**

In clause 3.8.7A(k), omit “.” and substitute:

- ;
- (l) the values associated with a *market ancillary service offer* referred to in clause 3.8.7A(j) must represent technical characteristics of the *ancillary service generating unit* or *ancillary service load*; and
- (m) rebids made under clause 3.8.22 of the values associated with the *market ancillary service offer* referred to in clause 3.8.7A(j) must represent technical characteristics at the time of *dispatch* of the *ancillary service generating unit* or *ancillary service load*.

**[9] Schedule 3.1 – Registered Bid and Offer Data**

In the table “Scheduled Generating Unit Data”, omit “normal and maximum *ramp rates*”, and substitute “*maximum ramp rate*”.

**[10] Schedule 3.1 – Registered Bid and Offer Data**

In the table “Semi-Scheduled Generating Unit Data”, omit “normal and maximum *ramp rate*”, and substitute “*maximum ramp rate*”.

**[11] Schedule 3.1 – Registered Bid and Offer Data**

In the table “Scheduled Load Data”, omit “normal and maximum *ramp rates*”, and substitute “*maximum ramp rate*”.

**[12] Schedule 3.1 – Registered Bid and Offer Data**

In the table “Scheduled Network Service Data”, omit “normal and maximum transfer *ramp rates*”, and substitute “*maximum ramp rates for transfer*”.

**[13] Chapter 10 New Definition**

In Chapter 10, insert the following new definition in alphabetical order:

**maximum ramp rate**

The *maximum ramp rate* that an item of equipment is capable of achieving in normal circumstances. This may be:

- (a) as specified by the manufacturer; or
- (b) as independently certified from time to time to reflect changes in the physical capabilities of the equipment.

**[14] Chapter 10 Substituted Definition**

In Chapter 10, omit the following definition and substitute:

**ramp rate**

The rate of change of *active power* (expressed as MW/minute) required for *dispatch*.

**Schedule 2      Amendment of the National Electricity Rules consequent on the commencement of the National Electricity Amendment (Central Dispatch and Integration of Wind and Other Intermittent Generation) Rule 2008 No. 2**

(Clause 4)

**[1]      Clause 3.8.3A      Ramp rates**

Omit clause 3.8.3A(a)(2) and substitute:

(2) with respect to offers for *dispatch*:

- (i) clause 3.8.6(b);
- (ii) clause 3.8.6(g);
- (iii) clause 3.8.6A(b);
- (iv) clause 3.8.7(c); and

**[2]      Clause 3.8.6      Generating unit offers for dispatch**

In clause 3.8.6(a)(2)(iii), omit “a MW/min *ramp rate capability*”, and substitute “an up *ramp rate* and a down *ramp rate*”.

**[3]      Clause 3.8.6      Generating unit offers for dispatch**

Omit clause 3.8.6(g) and substitute:

(g) A *Semi-Scheduled Generator's dispatch offer* may contain up to 10 *price bands* and must specify for each of the 48 *trading intervals* in the *trading day*:

- (1) an incremental MW amount for each *price band* specified in the *dispatch offer*; and
- (2) an up *ramp rate* and a down *ramp rate*.

**[4]      Clause 3.8.19      Dispatch inflexibilities**

In clause 3.8.19(a), omit “If” and substitute “Subject to clause 3.8.19(a2), if”.



**Note:** This is a civil penalty provision.

**[5] Clause 3.8.19 Dispatch inflexibilities**

In clause 3.8.19(a1), omit “If” and substitute “Subject to clause 3.8.19(a2), if”.

**[6] Clause 3.8.19 Dispatch inflexibilities**

After clause 3.8.19(a1), insert:

- (a2) If clause 3.8.19(a) or clause 3.8.19(a1) applies, the *Scheduled Generator, Market Participant or Semi-Scheduled Generator*:
  - (1) must not advise *NEMMCO* that a *scheduled generating unit, semi-scheduled generating unit, scheduled network service or scheduled load* is *inflexible* under clause 3.8.19(a) or clause 3.8.19(a1) unless it reasonably expects the *scheduled generating unit, semi-scheduled generating unit, scheduled network service or scheduled load* 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 generating unit, semi-scheduled generating unit, scheduled network service or scheduled load*; and
  - (2) must, as soon as practicable, advise *NEMMCO* that a *scheduled generating unit, semi-scheduled generating unit, scheduled network service or scheduled load* is not *inflexible* once it no longer reasonably expects the *scheduled generating unit, semi-scheduled generating unit, scheduled network service or scheduled load* 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 generating unit, semi-scheduled generating unit, scheduled network service or scheduled load*.

**[7] Clause 3.8.19 Dispatch inflexibilities**

In clause 3.8.19(b), after “clause 3.8.19(a)”, insert “or 3.8.19(a1)”.

**[8] Clause 3.8.22 Rebidding**

In clause 3.8.22(b), omit the first reference to “clause” and substitute “clauses 3.8.3A, 3.8.7A, 3.8.19(a) and”.

**[9] Clause 3.8.22 Rebidding**

In clause 3.8.22(b)(1), after “*ramp rates of*”, omit “*scheduled*”.

**[10] Clause 3.8.22A Variation of offer, bid or rebid**

Omit clause 3.8.22A(a) and substitute:

- (a) *A Scheduled Generator, Semi-Scheduled Generator or Market Participant must make a dispatch offer, dispatch bid or rebid in relation to available capacity and daily energy constraints in good faith.*

**Note:** This is a rebidding civil penalty provision.

END OF RULE AS MADE

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