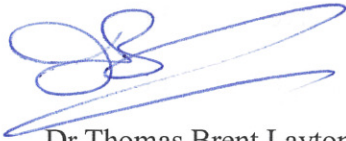


**Electricity Industry Participation (Dispatchable Demand)  
Code Amendment 2011**

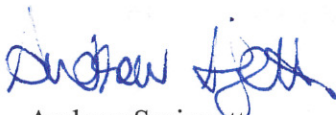
Pursuant to section 38 of the Electricity Industry Act 2010, I make the following amendments to the Electricity Industry Participation Code 2010.

At Wellington on the 17 day of October 2011



Dr Thomas Brent Layton  
Chairperson  
Electricity Authority

Certified in order for signature:



Andrew Springett  
Senior Legal Counsel  
Electricity Authority



Tony Dellow  
Partner  
Buddle Findlay

17 October 2011

17 October 2011

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## Amendment

### 1 Title

This Amendment is the Electricity Industry Participation (Dispatchable Demand) Code Amendment 2011.

### 2 Commencement

This Amendment comes into force on 27 June 2013.

### 3 Principal Code amended

This Amendment amends the Electricity Industry Participation Code 2010.

#### 4 Interpretation

Clause 1.1(1) is amended as follows:

- (a) by inserting the following definitions in their appropriate alphabetical order:

"**constrained off compensation** means, as the case may be,—

"(a) the **constrained off amounts** payable to a **dispatch purchaser** under clause 13.201A; or

"(b) **constrained off amounts** payable to the **clearing manager** under clause 13.201A by **purchasers**

"**dispatch load station** means, in respect of a **trading period**, a **dispatch-capable load station** for which a **purchaser** at a **non-conforming GXP** has submitted a **nominated dispatch bid** for the **trading period**

"**dispatch purchaser** means, in respect of a **trading period**, a **purchaser** who has submitted a **nominated dispatch bid** for the **trading period**

"**dispatchable load information** means the **volume information**—

"(a) of each **dispatch-capable load station** for each **trading period** in a **consumption period**; and

"(b) that is aggregated and rounded in accordance with clause 15.5C

"**dispatchable load purchaser** means a **purchaser** who purchases **electricity** for a **dispatch-capable load station**

"**dispatch-capable load station** means 1 or more devices that have been approved to be a **dispatch-capable load station** by the **system operator** under Schedule 13.8

"**dispatch-capable load station identifier** means a unique code—

"(a) assigned to a **dispatch-capable load station** under clause 7(2) of Schedule 13.8; and

"(b) that is used to identify the **dispatch-capable load station**

**"nominated dispatch bid** means a **nominated bid** that is—

- "(a) dispatchable; and
- "(b) indicated in Form 4 in Schedule 13.1 as being a **nominated dispatch bid**; and
- "(c) submitted under clause 13.7(1AA)(a)(ii)

**"nominated non-dispatch bid** means a **nominated bid** that is—

- "(a) not dispatchable; and
- "(b) indicated in Form 4 in Schedule 13.1 as being a **nominated non-dispatch bid**; and
- "(c) submitted under—
  - "(i) clause 13.7(1)(a); or
  - "(ii) clause 13.7(1AA)(a)(i); or
  - "(iii) clause 13.7(1AA)(b)

**"non-dispatch-capable load** means the quantity of **electricity** a **purchaser** at a **non-conforming GXP** reasonably expects to purchase at the **GXP**, excluding the total quantity of **electricity** the **purchaser** reasonably expects to purchase for all of its **dispatch-capable load stations** at the **GXP**"

- (b) by revoking the definition of **constrained on compensation** and substituting the following definition:

**"constrained on compensation** means, as the case may be,—

- "(a) the **constrained on amounts** payable to—
  - "(i) a **generator** under clause 13.212(1)(a); or
  - "(ii) an **ancillary service agent** under clause 13.212(1)(a); or
  - "(iii) a **dispatch purchaser** under clause 13.212(1)(b); or
- "(b) the **constrained on amounts** payable by the **system operator** under clause 13.212(2); or
- "(c) the **constrained on amounts** payable by a **purchaser** under clause 13.212(5)"

- (c) by amending the definition of **difference bid** by omitting "13.7(1B)(a)" in paragraph (a) and substituting "13.7AA(a)":
- (d) by amending the definition of **loss category** by inserting "and **dispatchable load information**" after "**submission information**":
- (e) by amending the definition of **loss factor** as follows:
  - (i) by inserting "and **dispatchable load information**" after "**submission information**":
  - (ii) by omitting "notified" in paragraph (b) and substituting "directed":
  - (iii) by inserting "clause 15.20B or" in paragraph (b) after "in accordance with":
- (f) by revoking the definition of **model formulation** and substituting the following definition:  
**"model formulation** means the mathematical description—  
 "(a) **published** by the **system operator** under clause 13.3C; and  
 "(b) from which **software specifications** have been developed for the **system operator**"
- (g) by amending the definition of **nominated bid** as follows:
  - (i) by omitting "13.7(1)(a)" in paragraph (a) and substituting "13.7":
  - (ii) by revoking paragraph (c):
- (h) by amending the definition of **SCADA situation** by omitting "and (iii)":
- (i) by amending the definition of **sub-block dispatch groups** by omitting "13.73(j)" and substituting "13.73(2)(j)":
- (j) by amending the definition of **sub-station dispatch groups** by omitting "13.73(k)" and substituting "13.73(2)(k)".

## 5 New clauses 13.3A to 13.3C inserted

The following clauses are inserted after clause 13.3:

**"13.3A Approval process for dispatch-capable load stations**

- "(1) A **purchaser** at a **non-conforming GXP** may apply to the **system operator** for approval of 1 or more devices to be a **dispatch-capable load station** under Schedule 13.8.
- "(2) If the **system operator** approves 1 or more devices as a **dispatch-capable load station**, the approval is valid until the earlier of—
  - "(a) the date the approval is suspended or revoked under Schedule 13.8; and
  - "(b) the date a **purchaser**, other than the **purchaser** to whom approval is granted, begins to purchase **electricity** at an **ICP** at which the **dispatch-capable load station** is located.

**"13.3B System operator must publish dispatch-capable load station approval process guidelines**

- "(1) The **system operator** must **publish** guidelines for the purpose of assisting **purchasers** to obtain approval under clause 13.3A.
- "(2) Before **publishing** the guidelines under subclause (1), the **system operator** must consult with **participants**.
- "(3) To avoid doubt, consultation undertaken before the commencement of this clause is to be treated as the consultation required for the purpose of subclause (2).

**"13.3C System operator must publish model formulation**

- "(1) The **system operator** must **publish** a **model formulation**.
- "(2) From time to time the **system operator** may amend the **model formulation**.
- "(3) As soon as practicable after amending a **model formulation**, the **system operator** must **publish** the amended **model formulation**."

**6 New clause 13.7 substituted**

Clause 13.7 is revoked and the following clause substituted:

**"13.7 Purchasers to submit bids for non-conforming GXPs**

**"(1) Each purchaser at a non-conforming GXP, except a purchaser who purchases electricity for a dispatch-capable load station at the GXP, must—**

**"(a) submit to the system operator a nominated non-dispatch bid—**

**"(i) for each trading period in a schedule period; and**

**"(ii) in relation to the non-conforming GXP; and**

**"(b) ensure that the system operator receives the nominated non-dispatch bid at least 71 trading periods before the beginning of the trading period to which the nominated non-dispatch bid applies.**

**"(1AA) Each purchaser who purchases electricity for a dispatch-capable load station at a non-conforming GXP must—**

**"(a) in relation to each of its dispatch-capable load stations at the non-conforming GXP, submit for each trading period in the schedule period—**

**"(i) a nominated non-dispatch bid; or**

**"(ii) a nominated dispatch bid; and**

**"(b) if it has non-dispatch-capable load at the non-conforming GXP, submit a nominated non-dispatch bid for the non-dispatch-capable load for each trading period in the schedule period; and**

**"(c) ensure that the system operator receives each nominated bid at least 71 trading periods before the beginning of the trading period to which the nominated bid applies.**

**"(1A) Despite subclause (1), if a purchaser at a non-conforming GXP does not submit a nominated bid for a trading period—**

**"(a) the purchaser does not breach subclause (1) or subclause (1AA) (as the case may be); and**

"(b) clause 13.8A applies."

**7 New clauses 13.7AA and 13.7AB inserted**

The following clauses are inserted after clause 13.7:

**"13.7AA Purchaser may submit difference bids for conforming GXPs**

Each **purchaser** at a **conforming GXP**—

- "(a) may submit a **difference bid** for a **trading period** to the **system operator** in relation to the **conforming GXP**; and
- "(b) must, if it submits a **difference bid**, ensure that the **system operator** receives the **difference bid** earlier than 2 hours before the beginning of the **trading period** to which it applies.

**"13.7AB Notice before submitting first bid**

- "(1) Despite clauses 13.7 and 13.7AA, a **purchaser** must give at least 5 **business days**' notice in writing to the **system operator** before the **purchaser** makes a **bid** for the 1st time.
- "(2) The **system operator** may request that a **purchaser** provides information that the **system operator** reasonably requires for the purposes of scheduling and **dispatch** in accordance with this Code.
- "(3) The **purchaser** must comply with the **system operator's** request."

**8 Deemed nominated bids**

Clause 13.8A(2) is amended by omitting "clause 13.13(1)(b) applies accordingly" and substituting "clauses 13.13(1)(b)(ii) to 13.13(1)(b)(iv) and 13.13(1)(c)(ii) apply accordingly as if the **nominated bid** were submitted under clause 13.7".

**9 New clause 13.13 substituted**

Clause 13.13 is revoked and the following clause substituted:

**"13.13 Information to be contained in bids**

- "(1) A **purchaser** must ensure that each of its **nominated bids**—

- "(a) contains all information required by Form 4 in Schedule 13.1; and
- "(b) if it is a **nominated non-dispatch bid**,—
  - "(i) indicates in Form 4 in Schedule 13.1 that it is a **nominated non-dispatch bid**; and
  - "(ii) if it is submitted under clause 13.7(1), represents the **purchaser's** reasonable endeavours to predict the total quantity of **electricity** (expressed in **MW**) that the **purchaser** will purchase at the **GXP** for the relevant **trading period** at the relevant price contained in the **nominated non-dispatch bid**; and
  - "(iii) if it is submitted under clause 13.7(1AA)(a)(i), represents the **purchaser's** reasonable endeavours to predict the total quantity of **electricity** (expressed in **MW**) that the **purchaser** will purchase for the **dispatch-capable load station** for the relevant **trading period** at the relevant price contained in the **nominated non-dispatch bid**; and
  - "(iv) if it is submitted under clause 13.7(1AA)(b), represents the **purchaser's** reasonable endeavours to predict the total quantity of **non-dispatch-capable load** (expressed in **MW**) that the **purchaser** will purchase at the **GXP** for the relevant **trading period** at the relevant price contained in the **nominated non-dispatch bid**; and
- "(c) if it is a **nominated dispatch bid** submitted under clause 13.7(1AA)(a)(ii),—
  - "(i) indicates in Form 4 in Schedule 13.1 that it is a **nominated dispatch bid**; and
  - "(ii) represents the **purchaser's** reasonable endeavours to predict the total quantity of **electricity** (expressed in **MW**) that the **purchaser** will purchase for the **dispatch-capable load station** for the relevant **trading period** at the relevant



price contained in the **nominated dispatch bid**.

"(2) A **purchaser** must ensure that each of its **difference bids**—

"(a) contains all information required by Form 4A in Schedule 13.1; and

"(b) represents the **purchaser's** reasonable endeavours to predict an increase or decrease in its usual quantity of **electricity** demanded for a **trading period** at the relevant price at the **GXP**."

#### 10 Bids may be revised or cancelled

(1) Clause 13.19A(2) is amended by inserting the following paragraph after paragraph (b):

"(ba) revise a **nominated bid's** type—

"(i) from **nominated dispatch bid** to **nominated non-dispatch bid**:

"(ii) from **nominated non-dispatch bid** to **nominated dispatch bid**:"

(2) Clause 13.19A(3)(a) is amended by inserting the following subparagraph after subparagraph (i):

"(ia) revise a **nominated bid's** type from **nominated dispatch bid** to **nominated non-dispatch bid**:"

(3) Clause 13.19A(3) is amended by revoking paragraph (b) and substituting the following paragraph:

"(b) before the beginning of the **trading period** to which a **nominated bid** applies, the **purchaser** who submitted the **nominated bid** must immediately submit a revised **nominated bid** quantity to the **system operator** if the **purchaser** expects, or ought reasonably to expect, that the quantity of **electricity** likely to be purchased by the **purchaser** at the various prices indicated in the **nominated bid** will,—

"(i) if the **nominated bid** is a **nominated non-dispatch bid**, differ from the quantity in the **nominated bid** by more than the lesser of—

"(A) 20MW; and

"(B) 20% of the **nominated bid** quantity:

"(ii) if the **nominated bid** is a **nominated dispatch bid**, differ from the quantity in the **nominated bid** by more than the lesser of—

"(A) 10MW; and

"(B) 10% of the **nominated bid** quantity;"

#### 11 Ancillary service agents to submit reserve offers to system operator

Clause 13.38 is amended by revoking subclauses (2) and (3) and substituting the following subclauses:

"(2) Each **reserve offer** submitted by an **ancillary service agent** under subclause (1) may be for **fast instantaneous reserve**, **sustained instantaneous reserve**, or both, and must—

"(a) for **partly loaded spinning reserve** or **tail water depressed reserve**, contain all information required by Form 5 in Schedule 13.1; and

"(b) for **interruptible load**—

"(i) contain all information required by Form 6 in Schedule 13.1; and

"(ii) if it is for **interruptible load** to be provided by a **dispatch load station**,—

"(A) specify the **dispatch-capable load station identifier**; and

"(B) be made as a separate **reserve offer** from **interruptible load** that is to be provided not using a **dispatch load station**; and

"(c) be a reasonable estimate of the quantity of **instantaneous reserve** available from the **ancillary service agent** at that **grid injection point**, **grid exit point**, or **interruptible load group GXP**.

"(3) Each **reserve offer** to which subclause (2)(a) applies must specify the **offer** to which the **reserve offer** relates."

#### 12 Inter-relationship between reserve and energy offers

(1) The heading to clause 13.39 is amended by omitting "energy" and substituting "electricity".

- (2) Clause 13.39 is amended by inserting "who is a **generator**" after "Accordingly, an **ancillary service agent**".

**13 Inter-relationship between reserve offers of interruptible load and electricity bids**

- (1) The heading to clause 13.40 is amended by omitting "electricity" and substituting "nominated".
- (2) Clause 13.40 is amended as follows:
- (a) by omitting "**Bids**" and substituting "**Nominated bids**";
  - (b) by omitting "13.13(1)(b) or 13.13(2)(b)" and substituting "13.13(1)(b)(ii) to (iv) or 13.13(1)(c)(ii)".

**14 New clause 13.45 substituted**

Clause 13.45 is revoked and the following clause substituted:

**"13.45 Reserve offers revised if energy offers or nominated dispatch bids revised**

Subject to clause 13.46(1) and (2), an **ancillary service agent** who has made a **reserve offer** must revise or cancel the **reserve offer** if it has,—

- "(a) under clauses 13.17 to 13.19, revised or cancelled the **offer** submitted for the **generating plant** for which the **reserve offer** was submitted; or
- "(b) under clause 13.19A, revised or cancelled the **nominated dispatch bid** submitted for the **dispatch load station** for which the **reserve offer** was submitted."

**15 Additional information to be provided by participants**

Clause 13.53 is amended by inserting "for **partly loaded spinning reserve** or **tail water depressed reserve**" after "a **reserve offer**".

**16 Content of this subpart**

Clause 13.56 is amended as follows:

- (a) by omitting from paragraph (b) ", including the contents of and inputs for those schedules":
- (b) by inserting in paragraph (e) ", **dispatch purchasers,**" after "**generators**".

#### 17 The dispatch objective

Clause 13.57 is amended by revoking paragraph (a) and substituting the following paragraphs:

- "(a) the capability of generation, **dispatch load stations,** and **ancillary services**; and
- "(aa) the configuration and capacity of the **grid** and information made available by **asset owners**; and"

#### 18 Inputs for price-responsive schedule and non-response schedule

(1) Clause 13.58A(1) is amended as follows:

- (a) by inserting in paragraph (a) ", **nominated dispatch bids,**" before "and **reserve offers**":
- (b) by inserting in paragraph (b) "**non-dispatch**" after "**nominated**".

(2) Clause 13.58(2) is amended as follows:

- (a) by inserting in paragraph (a) ", **nominated dispatch bids,**" before "and **reserve offers**":
- (b) by inserting in paragraph (b) "**non-dispatch**" after "**nominated**".

#### 19 System operator must use certain things

Clause 13.71 is amended as follows:

- (a) by omitting in paragraph (b) "any revised **offer**" and substituting "all revised **offers**":
- (b) by omitting in paragraph (c) "any" and substituting "all":
- (c) by revoking paragraph (d) and substituting the following paragraphs:
  - "(d) the sum of quantities from all **bid bands** from each revised **nominated non-dispatch bid**;  
and
  - "(da) all revised **nominated dispatch bids**; and"

- (d) by omitting in paragraph (e) "any" and substituting "all";
- (e) by omitting in paragraph (j) "any" and substituting "all relevant".

**20 New clause 13.72 substituted**

Clause 13.72 is revoked and the following clause is substituted:

**"13.72 System operator to formulate and issue dispatch instructions**

- "(1) The **system operator** must, in implementing each **dispatch schedule**, formulate and issue **dispatch instructions** in accordance with—
  - "(a) clause 13.73 or 13.74 (as the case may be); and
  - "(b) clause 13.75.
- "(2) The **system operator** must issue **dispatch instructions**—
  - "(a) to each **generator** for each **offer** the **generator** has submitted; and
  - "(b) to each **dispatch purchaser** for each **nominated dispatch bid** the **dispatch purchaser** has submitted; and
  - "(c) to each **ancillary service agent** for each **reserve offer** the **ancillary service agent** has submitted.
- "(3) The **system operator** may issue to a **generator** a **dispatch instruction** that is—
  - "(a) listed in clause 13.73(2); but
  - "(b) not listed in subclause (2).
- "(4) The **system operator** must issue all **dispatch instructions** in a reasonable and timely manner to enable **participants** to comply with the **dispatch instructions** in the **trading period** in which they are issued, or the next **trading period**.
- "(5) Despite subclauses (1) and (2), the **system operator** is not required to issue a **dispatch instruction** to a **participant** if—
  - "(a) the **dispatch instruction** is—
    - "(i) for **active power**; or

"(ii) for **instantaneous reserve**; and

"(b) the **dispatch instruction** would have differed from the most recent **dispatch instruction** issued to that **participant** by less than 1 **MW**."

## 21 Content of dispatch instructions to generators

(1) The heading to clause 13.73 is amended by adding ", ancillary service agents, and dispatch purchasers" after "generators".

(2) Clause 13.73 is amended by omitting "The **system operator** must issue **dispatch instructions** determined under clause 13.71 to each **generator**." and substituting the following subclause:

"(1) Subclause (2) applies to—

"(a) a **generator**:

"(b) an **ancillary service agent** who is also a **generator**."

(3) Clause 13.73 is amended by omitting "Each **dispatch instruction** must instruct a **generator** to carry out 1 of the following in relation to a **generating plant, generating unit, block dispatch group** or **station dispatch group**:" and substituting the following:

"(2) Each **dispatch instruction** that is issued to a person to whom this clause applies, must instruct the person to carry out 1 of the following in relation to a **generating plant, a generating unit, a block dispatch group, or a station dispatch group**:"

(4) Clause 13.73 is amended by adding the following subclause:

"(3) Each **dispatch instruction** issued to a **dispatch purchaser** must instruct the **dispatch purchaser** to use a specified quantity of **active power** in relation to a **dispatch load station**."

## 22 Content of dispatch instructions to reserve and interruptible load suppliers

The heading to clause 13.74 is amended by omitting "reserve and".

**23 Form of dispatch instruction**

- (1) Clause 13.75 is amended by omitting "13.73 or" and substituting "13.72 to".
- (2) Clause 13.75(a) is amended by inserting ", **dispatch load station,**" after "**station dispatch group**".

**24 New clause 13.76 substituted**

Clause 13.76 is revoked and the following clause is substituted:

**"13.76 Communication and logging of dispatch instructions**

- "(1) Electronic communication must be used to pass **dispatch instructions**—
  - "(a) between the **system operator** and each **generator**;
  - "(b) between the **system operator** and each **dispatch purchaser**.
- "(2) Voice communication or electronic communication (if such facility exists) must be used to pass **dispatch instructions** between the **system operator** and each **ancillary service agent**.
- "(3) The **system operator** must log and record all **dispatch instructions** issued to each **generator**, each **dispatch purchaser**, and each **ancillary service agent**.
- "(4) Each **generator**, each **dispatch purchaser**, and each **ancillary service agent** must log all **dispatch instructions** received from the **system operator**."

**25 Clause 13.77 revoked**

Clause 13.77 is revoked.

**26 Active power dispatch instructions to clearing manager**

- (1) The heading to clause 13.78 is amended by omitting "Active power dispatch instructions" and substituting "Dispatch instructions information to be provided".
- (2) Clause 13.78 is amended as follows:

- (a) by omitting "If the **system operator** has given a **dispatch instruction** to a **participant**, the" and substituting "The":
- (b) by omitting paragraph (a) and substituting the following paragraph:
  - "(a) a copy of a log of **dispatch instructions** listing—
    - "(i) all **dispatch instructions** issued to **generators**; and
    - "(ii) all **dispatch instructions** that instruct a **dispatch purchaser** to use a quantity of **active power** under clause 13.73(3) in relation to a **dispatch load station**; and
    - "(iii) all **dispatch instructions** that instruct an **ancillary service agent** to provide **instantaneous reserve**; and":
- (c) by omitting "13.73(a)" from paragraph (b) and substituting "13.73(2)(a)".

## 27 Acknowledgement of dispatch instructions

Clause 13.79 is amended as follows:

- (a) by omitting "**generator** or an **ancillary service agent**, that person" and substituting "**participant**, the **participant**":
- (b) by omitting "that **dispatch**" and substituting "the **dispatch**" in both places where it appears.

## 28 Backup procedures if communication not possible

Clause 13.81(b) is amended by omitting "a **generator**" and substituting "the relevant **generator**, **ancillary service agent**, or **dispatchable load purchaser**".

## 29 Dispatch instructions to be complied with

Clause 13.82 is amended as follows:

- (a) by inserting ", **dispatch purchaser**," after "Each **generator**":
- (b) by omitting "13.73 or" and substituting "13.72 to":
- (c) by inserting in paragraph (a) ", **dispatch**



**purchaser,"** after **"generator"** in both places where it appears:

- (d) by inserting in paragraph (a) "(as the case may be)" before ", personnel or plant safety":
- (e) by omitting in paragraph (b) "plant" and substituting **"generating plant or dispatch load station"** (as the case may be)":
- (f) by inserting in paragraph (b) ", **automatic under-frequency load shedding,"** after **"instantaneous reserve"**:
- (g) by omitting in paragraph (c) **"generator or ancillary service agent"** and substituting **" co-generator"**:
- (h) by omitting in paragraph (g) **"13.73(b)"** and substituting **"13.73(2)(b)"**.

### **30 New clause 13.83A inserted**

The following clause is inserted after clause 13.83:

#### **"13.83A Dispatch purchasers to make staff or facilities available to meet dispatch instructions**

- "(1) Each **dispatch purchaser** must ensure, with respect to each of its **dispatch load stations**, that appropriate personnel or facilities are available to receive and comply with each **dispatch instruction** issued by the **system operator** to the **dispatch purchaser**.
- "(2) Nothing in this clause limits the ability of a **dispatch purchaser** to have a control centre that operates 1 or more **dispatch load stations** by remote control."

### **31 Generators and ancillary service agents not obliged to comply with dispatch instructions below threshold**

- (1) The heading to clause 13.86 is amended by omitting "Generators and ancillary service agents" and substituting "Co-generators".
- (2) Clause 13.86 is revoked and the following clause is substituted:

**"A co-generator** is not required to comply with 1 or more **dispatch instructions** given by the **system operator** in accordance with clause 13.72 if implementing the

**dispatch instruction** or those **dispatch instructions** together would change by less than or equal to 5 MW from the last **dispatch instruction** that the **generator** complied with."

**32 Process for publishing real time prices**

Clause 13.90(1)(b) is amended as follows:

- (a) by omitting from subparagraph (iv) "the ramp up rate" and substituting "the scheduled ramp up rate of a **generator**":
- (b) by omitting from subparagraph (iv) "relevant" and substituting "**generator's**":
- (c) by omitting from subparagraph (v) "the ramp down rate" and substituting "the scheduled ramp down rate of a **generator**":
- (d) by omitting from subparagraph (v) "as specified in the relevant" and substituting "specified in the **generator's**":
- (e) by inserting the following subparagraphs after subparagraph (v):
  - "(va) the number of occurrences at which the scheduled ramp up rate of a **dispatch load station** is equal to the maximum ramp up rate specified in the **nominated dispatch bid** submitted for the **dispatch load station**:"
  - "(vb) the number of occurrences at which the scheduled ramp down rate of a **dispatch load station** is equal to the maximum ramp down rate specified in the **nominated dispatch bid** submitted for the **dispatch load station**:"
- (f) by omitting from paragraph (vi) "demand" and substituting "**demand**".

**33 Purchaser to co-operate with system operator to manage response to real time prices**

Clause 13.96 is amended by omitting "demand" and substituting "**demand**, other than **demand** for a **dispatch load station**".

**34 Half-hour metering information to be adjusted for losses**

The heading to clause 13.138 is amended by omitting "Half-hour" and substituting "Generator's half-hour".

**35 New clauses 13.138A, 13.138B, and 13.138C inserted**

The following clauses are inserted after clause 13.138:

**"13.138A Dispatch load purchaser's half-hour metering information to be adjusted for losses**

"(1) Each **dispatch load purchaser** must provide **half-hour metering information** to the **pricing manager** and the relevant **grid owner**—

"(a) for each **dispatch-capable load station**; and

"(b) in accordance with subclause (2).

"(2) Each **dispatch load purchaser** must provide the **half-hour metering information** described in subclause (1) to the **pricing manager** and the relevant **grid owner**—

"(a) adjusted for **losses**, if any, relative to the **grid exit point** at which the **dispatch load purchaser** purchases **electricity** for the **dispatch-capable load station**; and

"(b) in the manner and form that the **pricing manager** stipulates; and

"(c) by 0500 hours on a **trading day** for each **trading period** of the previous **trading day**.

"(3) To avoid doubt, each **dispatch purchaser** must provide the **half-hour metering information** required under this clause in accordance with the requirements of Part 15 for the collection of the **dispatch purchaser's volume information**.

**"13.138B System operator to provide list of trading periods**

The **system operator** must, by 0500 hours on each **trading day**, provide the **pricing manager** and the relevant **grid owner** with a list showing each **trading period** in the previous **trading day** during which a **dispatch-capable load station** was issued a **dispatch instruction**.

**"13.138C Pricing manager and grid owner to use dispatch load station's half-hour metering information**

For the purpose of clause 13.141, the **pricing manager** and the relevant **grid owner** must use the information set out in clause 13.138A(2), but only for the **trading periods** in which each **dispatch-capable load station** was issued a **dispatch instruction**."

**36 New clause 13.140 substituted**

Clause 13.140 is revoked and the following clause substituted:

**"13.140 Generators and dispatch load purchasers to notify provision of half-hour metering information**

- "(1) If a **generator** provides **half-hourly metering information** to the **pricing manager** and a **grid owner** under clauses 13.136 to 13.138, the **generator** must **publish** a notice that it has given **half-hourly metering information** to the **pricing manager** and the relevant **grid owner**.
- "(2) If a **dispatch load purchaser** provides **half-hourly metering information** in accordance with clause 13.138A, the **dispatch load purchaser** must **publish** a notice that it has given **half-hourly metering information** to the **pricing manager** and the relevant **grid owner**.
- "(3) The notice must be **published** by 0730 hours on the day the **half-hourly metering information** is provided to the **pricing manager** and the relevant **grid owner**."

**37 Pricing manager to use certain input information**

- (1) Clause 13.141(1)(a) is amended as follows:
  - (a) by omitting "all items of **generating plant** or **generating units** that were" from subparagraph (i) and substituting "each **generating plant** and each **generating unit** that was":
  - (b) by omitting "data; and" from subparagraph (ii) and substituting "data:"
  - (c) by revoking subparagraph (iii).

- (2) Clause 13.141(1) is amended by inserting the following paragraph after paragraph (a):

"(aa) for a **dispatch load station**—

- "(i) data specifying the instantaneous **MW** used for each **dispatch load station** at the beginning of each **trading period**; or
- "(ii) if no such data is available, a reasonable estimate of such data:"

- (3) Clause 13.141(1)(b)(i) is amended as follows:

- (a) by omitting " $L_{MA} = G_{EA} + L_{MX}$ " and substituting " $L_{MA} = G_{EA} + L_{MX} - L_{DLS}$ ";
- (b) by omitting " $L_{MA} = G_{EA} - L_{MI}$ " and substituting " $L_{MA} = G_{EA} - L_{MI} - L_{DLS}$ ";
- (c) by omitting " $L_{MA} = L_{MX} - UI_{GEA}$ " and substituting " $L_{MA} = L_{MX} - L_{DLS} - UI_{GEA}$ ";
- (d) by inserting " $L_{DLS}$  is the adjusted **half-hour metering information** for the quantity of **electricity** measured in **MWh** used by a **dispatch load station** as specified in clause 13.138C" after the definition of " $L_{MI}$ ".

- (4) Clause 13.141(1) is amended by inserting the following paragraph after paragraph (c):

"(ca) the final **nominated dispatch bid** for each **trading period** submitted by a **dispatch purchaser** and provided to the **pricing manager** by the **system operator** in accordance with clause 13.63:"

- (5) Clause 13.141(1)(e) is amended by inserting "provided to the **system operator** by a **grid owner** under clauses 13.29 to 13.34" after "the final information".

- (6) Clause 13.141 is amended by inserting the following subclause after subclause (1):

"(1A) Each **grid owner** must give the information required by subclauses (1)(a) and (1)(aa) to the **pricing manager**,—

- "(a) by 0730 hours on the current **trading day**; and
- "(b) for each **trading period** of the previous **trading day**; and
- "(c) in the form specified by the **pricing manager**."

**38 Requirements if provisional price situation exists**

Clause 13.146(4) is amended as follows:

- (a) by inserting "or a **dispatch load purchaser** (as the case may be)" after "If a **generator**":
- (b) by inserting "or **dispatch load purchaser** (as the case may be)" after "the **generator**".

**39 New clause 13.147 substituted**

Clause 13.147 is revoked and the following clause substituted:

**"13.147 Revised data to be accompanied by notice**

- "(1) This clause, clause 13.148, and clause 13.155 apply to—
  - "(a) a **grid owner**;
  - "(b) a **generator**;
  - "(c) the **system operator**;
  - "(d) a **dispatch load purchaser**.
- "(2) If a person who is listed in subclause (1) gives revised data to the **pricing manager** in accordance with clause 13.146, the person must—
  - "(a) **publish** a notice that revised data has been given; and
  - "(b) specify in the notice the revisions that have been made; and
  - "(c) in the case of revised data given in relation to a **SCADA situation**, state in the notice whether a **SCADA situation** continues to exist; and
  - "(d) in the case of revised data given in relation to a **high spring washer price situation**, if the **high spring washer price situation relaxation factor** has been applied, state in the notice that the factor has been applied.
- "(3) A person who is listed in subclause (1) must comply with subclause (2) within the timeframes specified in clause 13.146(3)."

**40 Failure to give revised data and notice not breach**

Clause 13.148 is amended by omitting "If a **grid owner**, or a **generator**, or the **system operator** fails to give revised data in accordance with clause 13.146 and notice in accordance with clause 13.147 by the time prescribed by those clauses, the failure is not a breach of those clauses if the **grid owner**, or **generator**, or **system operator** (as the case may be)" and substituting "A person who is listed in clause 13.147(1) does not breach clauses 13.146(3) or 13.147(3) if the person".

**41 Pricing manager to publish provisional prices and provisional reserve prices if revised data and notice not given in relation to provisional price situation arising on business day**

Clause 13.149 is amended by omitting "If notice of a **provisional price situation** is given on a **business day**, and a **grid owner**, or a **generator**, or the **system operator** does not give revised data in accordance with clause 13.146 and notice in accordance with clause 13.147 by the time prescribed by those clauses, the **pricing manager** must,—"

 and substituting the following:

"(1) This clause applies when—

"(a) a notice of a **provisional price situation** is given on a **business day**; and

"(b) a person who is listed in clause 13.147(1)—

"(i) does not comply with the timeframes specified in clause 13.146(3); or

"(ii) does not comply with the timeframes specified in clause 13.147(3).

"(2) When this clause applies, the **pricing manager** must—".

**42 Pricing manager to publish provisional prices and provisional reserve prices if revised data and notice not given in relation to provisional price situation arising on day other than business day**

Clause 13.150 is amended by omitting "If notice of a **provisional price situation** is given on a day other than a **business day**, and a **grid owner**, or a **generator**, or the **system operator** does not give revised data in accordance with clause 13.146 and notice in accordance with

clause 13.147, the **pricing manager** must—" and substituting the following:

"(1) This clause applies when—

"(a) a notice of a **provisional price situation** is given on a day other than a **business day**; and

"(b) a person who is listed in clause 13.147(1)—

"(i) does not comply with the timeframes in clause 13.146(3); or

"(ii) does not comply with the timeframes in clause 13.147(3).

"(2) When this clause applies, the **pricing manager** must—".

#### 43 New clause 13.152 substituted

Clause 13.152 is revoked and the following clause substituted:

**"13.152 Pricing manager to publish interim prices and interim reserve prices if revised data resolves provisional price situation**

"(1) This clause applies when a person who is listed in clause 13.147(1) gives—

"(a) revised data in accordance with clause 13.146 (that does not itself give rise to a **provisional price situation**); or

"(b) a notice in accordance with clause 13.147.

"(2) When this clause applies, the **pricing manager** must **publish interim prices** and **interim reserve prices** for each **trading period** of the previous **trading day**.

"(3) The **pricing manager** must **publish** the **interim prices** and **interim reserve prices** by 1200 hours on the day that the revised data and notice were required to be given."

#### 44 New clause 13.154 substituted

Clause 13.154 is revoked and the following clause substituted:



**"13.154 Grid owner, generators, dispatch load purchasers, and system operator to give revised data if provisional prices and provisional reserve prices have been published**

**"(1) This clause applies when the pricing manager has published provisional prices and provisional reserve prices in accordance with clauses 13.149 and 13.150.**

**"(1A) If the provisional prices and provisional reserve prices were published in relation to an infeasibility situation or a SCADA situation, the grid owner and, in the case of an infeasibility situation, the system operator, must use reasonable endeavours to resolve the provisional price situation and provide revised data to the pricing manager.**

**"(1B) If the provisional prices and provisional reserve prices were published in relation to a metering situation, the grid owner or the generator or the dispatch load purchaser (as the case may be) must provide revised metering information in accordance with clause 13.166.**

**"(1C) If the provisional prices and provisional reserve prices were published in relation to a high spring washer price situation, the system operator must apply the high spring washer price relaxation factor in accordance with the high spring washer price situation methodology and use reasonable endeavours to provide revised data to the pricing manager.**

**"(2) The revised data required by this clause must be provided to the pricing manager by 1200 hours on the 2nd business day following the publication of the provisional prices and provisional reserve prices."**

#### **45 Revised data to be accompanied by notice**

Clause 13.155 is amended as follows:

- (a) by omitting "If a grid owner, or a generator, or the system operator" and substituting "If a person who is listed in clause 13.147(1)";**
- (b) by omitting "the grid owner, or generator, or system operator (as the case may be)" and substituting "the person".**

**46 Generator or grid owner to give revised metering information following initial estimate**

- (1) The heading to clause 13.166 is amended by omitting "Generator or grid owner" and substituting "Generator, grid owner, or dispatch load purchaser".
- (2) Clause 13.166(1) is amended by omitting "13.154(1)(b) applies, the **generator or grid owner**" and substituting "13.154(1B) applies, the **generator, grid owner, or dispatch load purchaser**".
- (3) Clause 13.166(2) is amended as follows:
  - (a) by inserting "or a **dispatch load purchaser**" after "failure of a **generator**":
  - (b) by inserting "or **dispatch load purchaser** (as the case may be)" after "the **generator**".

**47 Constrained off situations may occur**

Clause 13.192 is amended as follows:

- (a) by omitting "13.194." and substituting "13.194; or":
- (b) by inserting the following paragraph after paragraph (b):
  - "(c) in relation to a **dispatch load station**, the **system operator** issues **dispatch instructions** for the **dispatch load station** for a **MW** amount which, when assessed on average over a **trading period**, is less than the **MW** amount scheduled for the **dispatch load station** in the schedule of **final prices** for the **trading period**."

**48 Clearing manager to calculate constrained off amounts**

- (1) Clause 13.194(1) is amended by inserting ", in relation to a **generator**," after "**constrained off situation** occurs".
- (2) Clause 13.194 is amended by inserting the following subclause after subclause (1):
  - "(1A) If a **constrained off situation** occurs, in relation to a **dispatch load station**, during a **trading period** in a **billing period**, the **clearing manager** must calculate the **constrained off amounts** for each **dispatch load station**, for each affected **nominated**

**dispatch bid** price band, in accordance with the following formula:

$$\text{"ConOffAmt}_{\text{disp}} = \text{ConOffQ} * (P_b - P_f)$$

"where

"ConOffAmt<sub>disp</sub> is the **constrained off amount** for a **dispatch load station** for the **nominated dispatch bid** price band

"ConOffQ is the amount expressed in **MWh** by which Q<sub>fp</sub> exceeds the highest of Q<sub>disp</sub> and Q<sub>rec</sub>

"where

"Q<sub>fp</sub> is the quantity, expressed in **MWh**, scheduled for the **nominated dispatch bid** price band in the schedule of **final prices**

"Q<sub>disp</sub> is the average quantity, expressed in **MWh**, dispatched for the **nominated dispatch bid** price band in the **trading period**

"Q<sub>rec</sub> is the **reconciled quantity** provided by the **reconciliation manager** under Part 15 allocated by the **clearing manager** to the **nominated dispatch bid** price band in the **trading period**

"P<sub>b</sub> is the price bid for the **nominated dispatch bid** price band for the **dispatch load station** that was constrained off

"P<sub>f</sub> is the **final price** for the **trading period** at the **grid exit point**".

- (3) Clause 13.194(2)(b) is amended by inserting "for an **offer**," before "the ramp rate".
- (4) Clause 13.194(2) is amended by inserting the following paragraph after paragraph (b):

"(ba) for a **nominated dispatch bid**, the applicable maximum ramp rate specified in the **nominated dispatch bid**; and".

**49 Clearing manager to publish details of constrained off amounts**

- (1) Clause 13.199 is amended by inserting "and each **dispatch purchaser**" after "for each **generator**".
- (2) Clause 13.199(b) is amended by inserting "or **dispatch purchaser** (as the case may be)" after "the **generator**".
- (3) Clause 13.199(c) is amended by omitting "**block dispatch group** or **station dispatch group**" and substituting ", **grid exit point, block dispatch group, or station dispatch group** (as the case may be)".

**50 New clause 13.201A inserted**

The following clause is inserted after clause 13.201:

**"13.201A Dispatch purchasers entitled to constrained off compensation and purchasers to pay constrained off compensation**

- "(1) A **dispatch purchaser** in respect of whose **dispatch load station** there was a **constrained off situation** as described in clause 13.192(c) is entitled to be paid **constrained off compensation** for the **constrained off amounts** calculated under clause 13.194(1A).
- "(2) A **purchaser** who purchases **electricity** at a **grid exit point** must pay **constrained off compensation**, calculated under subclause (6), to the **clearing manager**.
- "(3) The **clearing manager** must pay **constrained off compensation** received under subclause (2)—
  - "(a) in accordance with clauses 14.36 to 14.43; and
  - "(b) for each **dispatch load station**, to the **dispatch purchaser** who purchases **electricity** for the **dispatch load station**.
- "(4) The **clearing manager** must include all **constrained off compensation** payable to a **dispatch purchaser** in relation to a **billing period** in the invoice it issues to the **dispatch purchaser** under clause 14.44(a).

- "(5) The **clearing manager** must pay the **constrained off compensation** it receives under subclause (2) to the **dispatch purchaser** at the same time as any other amount owing under clause 14.46 is payable to the **dispatch purchaser**.
- "(6) The **clearing manager** must calculate and invoice **constrained off compensation** to be paid by each **purchaser** under subclause (2) for each **trading period** in accordance with the following formula:

$$\text{"ConOffC}_p = \text{ConOffC}_{\text{DLPs}} * (\text{Pur}_i / \text{TotPur})$$

"where

"ConOffC<sub>p</sub> is the **constrained off compensation** payable by a **purchaser**

"ConOffC<sub>DLPs</sub> is the sum of **constrained off compensation** owing to all **dispatch purchasers** for the **trading period**

"Pur<sub>i</sub> is the total quantity in **MWh** of all purchases by the **purchaser** from the **clearing manager** during the **trading period**, as shown by **reconciliation information** calculated by the **reconciliation manager** under Part 15

"TotPur is the quantity in **MWh** of all purchases by all **purchasers** from the **clearing manager** during the **trading period**, as shown by **reconciliation information** calculated by the **reconciliation manager** under Part 15".

## 51 Constrained on situations may occur

Clause 13.202 is amended as follows:

- (a) by omitting in paragraph (c) "**period.**" and substituting "**period; or**";
- (b) by inserting the following paragraph after paragraph (c):

"(d) in relation to a **dispatch purchaser**, the **system operator** issues **dispatch instructions** for the **dispatch load station** for a **MW** amount which, when assessed on average over a **trading period**, is more than the **MW** amount scheduled for the **dispatchable load station** in the schedule of **final prices** for the **trading period**."

## 52 Calculation of constrained on amounts

(1) Clause 13.204(1) is amended by inserting the following paragraph after paragraph (a):

"(aa) the **clearing manager** must calculate the **constrained on amounts** for a **constrained on situation** described in clause 13.202(d) for each **dispatch load station** for each affected **nominated dispatch bid** price band, in accordance with the following formula:

$$\text{"ConOnAmt} = \text{ConOnQ} * (P_t - P_b)$$

"where

"ConOnAmt is the **constrained on amount** for a **dispatch load station** for the **nominated dispatch bid** price band

"ConOnQ is the amount expressed in **MWh** by which the lowest of  $Q_{\text{disp}}$  and  $Q_{\text{rec}}$  exceeds  $Q_{\text{fp}}$

"where

" $Q_{\text{disp}}$  is the average dispatched quantity for the **nominated dispatch bid** band in the **trading period**, expressed in **MWh**

" $Q_{\text{rec}}$  is the **reconciled quantity** provided by the **reconciliation manager** under Part 15 allocated by the **clearing manager** to the **nominated dispatch bid** price

band in the **trading period**

"Q<sub>fp</sub> is the quantity for the **nominated dispatch bid** price band scheduled in the schedule of **final prices**, expressed in MWh

"P<sub>f</sub> is the **final price** for that **trading period** at the **grid exit point**

"P<sub>b</sub> is the price bid for the **nominated dispatch bid** price band for the **dispatch load station** that was constrained on; and".

- (2) Clause 13.204(1)(b) is amended as follows:
- (a) by inserting "for an **offer**," before "the ramp rate" in subparagraph (ii):
  - (b) by inserting the following subparagraph after subparagraph (ii):
    - "(iia) for a **nominated dispatch bid**, the applicable maximum ramp rate specified in the **nominated dispatch bid**; and".

**53 Calculation of constrained on amounts attributable to system operator**

Clause 13.205 is amended by inserting "each" after "each generator or".

**54 Clearing manager to publish details of constrained on amounts**

- (1) Clause 13.208 is amended by inserting ", **dispatch purchaser**," after "each generator".
- (2) Clause 13.208(b) is amended by omitting "or **ancillary service agent**" and substituting ", **dispatch purchaser**, or **ancillary service agent** (as the case may be)".
- (3) Clause 13.208 is amended by revoking paragraph (c) and substituting the following paragraph:

"(c) the applicable **grid injection point, grid exit point, block dispatch group, or station dispatch group** (as the case may be)."

**55 Payment of constrained on compensation**

- (1) Clause 13.212 is amended by omitting subclause (1) and substituting the following subclauses:

"(1) For each **trading period**,—

"(a) a **generator** or an **ancillary service agent** is entitled to be paid **constrained on compensation** for **constrained on amounts** determined under clauses 13.204 and 13.205; and

"(b) a **dispatch purchaser** is entitled to be paid **constrained on compensation** for **constrained on amounts** determined under clause 13.204.

"(1A) **Constrained on compensation** for each **dispatch load station** is to be paid to the **dispatch purchaser** who purchases **electricity** for the **dispatch load station**."

- (2) Clause 13.212(2) is amended by omitting "**generator**," and substituting "**generator**".

- (3) Clause 13.212(3) is amended as follows:

(a) by omitting "Any **constrained**" and substituting "**Constrained**";

(b) by omitting "or **ancillary service agent** in relation to" and substituting "**ancillary service agent, or a dispatch purchaser** for";

(c) by omitting "or **ancillary service agent** by" and substituting "**ancillary service agent, or dispatch purchaser** (as the case may be) by".

- (4) Clause 13.212(4) is amended as follows:

(a) by omitting "or **ancillary service agent**" after "to the **generator**," and substituting "**ancillary service agent, or dispatch purchaser**";

(b) by omitting "that **generator, or ancillary service agent**" and substituting "the **generator, ancillary service agent, or dispatch purchaser** (as the case may be)".



- (5) Clause 13.212 is amended by revoking subclause (5) and substituting the following subclauses:

"(5) Each **purchaser** who purchases **electricity** at a **grid exit point** must pay **constrained on compensation**, calculated under subclause (7), to —

"(a) each **generator** who generates **electricity** at a **grid injection point**; and

"(b) each **dispatch purchaser** who purchases **electricity** at a **grid exit point**.

"(5A) A payment under subclause (5) must be made in accordance with clauses 14.36 to 14.43."

- (6) Clause 13.212(7) is amended by omitting "**generators** injecting **electricity** for that **trading period** calculated in accordance with clause 13.204" in the definition of "**COC<sub>g</sub>**" and substituting "**all generators and all dispatch purchasers** for that **trading period** calculated in accordance with clauses 13.204(1)(a) and 13.204(1)(aa)".

#### 56 Form 4 of Schedule 13.1

Form 4 of Schedule 13.1 is amended by inserting the following before "**Nominated bid to buy electricity**":

"Type of Bid:      Nominated dispatch bid      ☐

                                 Nominated non-dispatch bid      ☐

#### "Nominated dispatch bid

*"Complete the following three lines only if you have ticked the "Nominated dispatch bid" box above.*

"Dispatch-capable load station identifier: \_\_\_\_\_

"Maximum ramp up rate: \_\_\_\_\_ MW/hr

"Maximum ramp down rate: \_\_\_\_\_ MW/hr".

#### 57 Form 6 of Schedule 13.1 amended

Form 6 of Schedule 13.1 is amended as follows:

- (a) by inserting "Dispatch-capable load station identifier (if relevant) \_\_\_\_\_" above "**Instantaneous reserve capability**";

- (b) by omitting "1" after "**Offer to provide reserve**".

**58 Purpose of the modelling system**

Clause 1 of Schedule 13.3 is amended by revoking subclause (2) and substituting the following subclause:

"(2) Schedules covering more than 1 **trading period** must be prepared for each **trading period** independently, subject to ramp rate constraints specified in clauses 9A(b) and 10(2)."

**59 Schedule of real time prices**

Clause 6(a) of Schedule 13.3 is amended by inserting "revised **nominated dispatch bids** under clause 13.19A," after "13.71(b),".

**60 Constraints**

Clause 9 of Schedule 13.3 is amended as follows:

- (a) by omitting "constraints under this clause and clauses 10, 11, and 12" and substituting "following constraints":
- (b) by omitting "are met (to" and substituting "are met to":
- (c) by omitting "model formulation)" and substituting "model formulation":
- (d) by omitting paragraph (a) and substituting the following paragraphs:
  - "(b) constraints relating to **generation** set out in clause 9A; and
  - "(c) constraints relating to **demand** set out in clause 10; and
  - "(d) constraints relating to the transmission system set out in clause 11; and
  - "(e) constraints relating to **instantaneous reserve** set out in clause 12."

**61 New clause 9A of Schedule 13.3 inserted**

The following clause is inserted after clause 9 of Schedule 13.3:

## **"9A Constraints relating to generation**

The constraints for the purpose of clause 9(b) are—

- "(a) for each price band, the modelling system must not schedule **electricity** generation that would result in the scheduled quantity of **electricity** to be generated by a **generator** being greater than the quantity offered by the **generator** for the price band; and
- "(b) the modelling system must schedule **electricity** generation for each **generating unit** or **generating station** in a **trading period** within the offered maximum ramp up and ramp down rates of that **generating unit** or **generating station**, given the expected (or actual) output at the start of the **trading period**."

## **62 Demand**

- (1) The heading to clause 10 of Schedule 13.3 is amended by omitting "Demand" and substituting "Constraints relating to demand".
- (2) Clause 10 of Schedule 13.3 is amended by adding the following subclause:
  - "(2) The modelling system must schedule **demand** for a **dispatch load station** in a **trading period** within the bid maximum ramp up and ramp down rates for the **dispatch load station**, given the expected (or actual) **demand** at the start of the **trading period**."

## **63 The transmission system**

The heading to clause 11 of Schedule 13.3 is amended by omitting "The" and substituting "Constraints relating to".

## **64 Instantaneous reserves**

- (1) The heading to clause 12 of Schedule 13.3 is amended by omitting "Instantaneous reserves" and substituting "Constraints relating to instantaneous reserve".
- (2) The following subclause is added after subclause (4):
  - "(5) The modelling system must not schedule a quantity ("quantity A") that would be greater than another quantity ("quantity B"), where—

- "(a) quantity A is **interruptible load** that is—
  - "(i) specified in a **reserve offer**; and
  - "(ii) to be provided by a **dispatch load station**; and
- "(b) quantity B is the load scheduled for the **dispatch load station**."

**65 New Schedule 13.8 inserted**

Schedule 13.8, which is set out in Schedule 1 of this Amendment, is inserted after Schedule 13.7.

**66 Purchase for offtake through local network by embedded generator**

Clause 14.34 is amended by revoking subclause (2) and substituting the following subclause:

- "(2) The price payable by the **purchaser** for such **electricity** is the sum of—
  - "(a) the **final price** for the relevant **trading period** for that **point of connection**; and
  - "(b) any **constrained off compensation** owing in respect of that **trading period**; and
  - "(c) any **constrained on compensation** owing in respect of that **trading period**."

**67 Setting price and quantity**

Clause 14.35 is amended as follows:

- (a) by omitting "13.185" and substituting "13.185, and **constrained off compensation** and";
- (b) by omitting "clauses 13.202 to 13.211" and substituting "clauses 13.192 to 13.212".

**68 Content of invoice**

Clause 14.40(b) is amended as follows:

- (a) by inserting "**constrained off compensation** and" after "to be debited for";
- (b) by omitting "clause 13.212(7)" and substituting "clauses 13.201A(6) and 13.212(7) respectively".

**69 Content of pro forma invoice**

Clause 14.45 is amended by inserting the following paragraph after paragraph (b):

"(ba) **constrained off compensation** being **constrained off amounts** calculated in accordance with clause 13.194(1A):"

**70 Clearing manager to prioritise payment of funds**

- (1) Clause 14.47(a) is amended by inserting "and **purchasers**" after "payments to **generators**".
- (2) Clause 14.47 is amended by revoking paragraph (d) and substituting the following paragraph:

"(d) to satisfy any amounts due to—

"(i) **generators** determined under clause 14.45, excluding any amounts specified for **ancillary services** in accordance with clause 14.45(e); and

"(ii) **purchasers** in relation to—

"(A) **constrained on compensation** under clause 14.45(b); and

"(B) **constrained off compensation** under clause 14.45(ba)—".

**71 Inadequate funds reduces amounts paid to generators**

- (1) The heading to clause 14.49 is amended by adding "and dispatch purchasers" after "paid to generators".
- (2) Clause 14.49(a) is amended as follows:
  - (a) by inserting ", and to each **dispatch purchaser** to whom **constrained on compensation** or **constrained off compensation** is payable," after "to each **generator**";
  - (b) by inserting in the definition of "InvG" "or **dispatch purchaser** (as the case may be)" after "payable to the **generator**";
  - (c) by inserting in the definition of "TotInvG" ", and to all **dispatch purchasers** (as the case may be) to whom **constrained on compensation** or **constrained off compensation** (as the case may be) is payable," after "payable to all **generators**".

- (3) Clause 14.49(b)(ii) is amended as follows:
- (a) by inserting ", on a pro rata basis, both" after "by reducing":
  - (b) by inserting ", and **constrained off compensation** determined under clause 14.45(ba)" after "clause 14.45(b)".

**72 Interest is payable to generators**

- (1) The heading to clause 14.50 is amended by adding "and dispatch purchasers" after "generators".
- (2) Clause 14.50(1) is amended as follows:
  - (a) by inserting "or a **dispatch purchaser**" after "if a **generator**":
  - (b) by inserting "or **dispatch purchaser** (as the case may be)" after "to the **generator**".

**73 Generators assigned or subrogated to all clearing manager's rights of recovery**

- (1) The heading to clause 14.54 is amended by inserting "and dispatch purchasers" after "Generators".
- (2) Clause 14.54 is amended as follows:
  - (a) by omitting "to pay **generators**" and substituting "to pay a **generator**, or a **dispatch purchaser**,":
  - (b) by omitting "payable to them so that any amount paid to **generators**" and substituting "payable to the **generator** or **dispatch purchaser** (as the case may be) so that any amount paid to a **generator** or **dispatch purchaser**":
  - (c) by omitting "**generators** are entitled" and substituting "**generator** or **dispatch purchaser** is entitled":
  - (d) by omitting "for the **generators**" and substituting "for the **generator** or **dispatch purchaser** (as the case may be)":
  - (e) by omitting "the **generators**, to assist the **generators**" and substituting "a **generator** or **dispatch purchaser** (as the case may be), to assist the **generator** or **dispatch purchaser**":
  - (f) by omitting "The **generators**" and substituting "The **generator** or **dispatch purchaser**".

**74 Rights of generators to exercise rights**

- (1) The heading to clause 14.63 is amended by inserting "or dispatch purchasers" after "generators".
- (2) Clause 14.63(1) is amended as follows:
  - (a) by omitting "Any 1 or more of the **generators**" and substituting "A **generator** or a **dispatch purchaser**":
  - (b) by omitting "—  
then any 1 or more of the **generators** is entitled to exercise its rights under clause 14.54".

**75 Contents of this Part**

Clause 15.1 is amended by inserting the following paragraph after paragraph (d):

"(da) how **dispatchable load purchasers** must provide **dispatchable load information**:"

**76 Preparing and submitting submission information**

Clause 15.5 is amended by revoking subclause (2) and substituting the following subclause:

"(2) Each **reconciliation participant** must derive **volume information** in accordance with Schedule 15.2."

**77 New clauses 15.5A to 15.5D inserted**

The following clauses are inserted after clause 15.5:

**"15.5A Dispatchable load purchaser must prepare dispatchable load information**

- "(1) Each **dispatchable load purchaser** must prepare **dispatchable load information**.
- "(2) In preparing **dispatchable load information**, the **dispatchable load purchaser** must derive **volume information** in accordance with Schedule 15.2 unless clause 15.5B applies.

**"15.5B Deriving volume information if metering installation not at point of connection**

- "(1) This clause applies if a **dispatch-capable load station's metering installation** is not located at a **point of connection**.
- "(2) If this clause applies, a **dispatchable load purchaser** must derive **volume information** from the **raw meter data**—
  - "(a) obtained from the **metering installation**; and
  - "(b) that the **dispatchable load purchaser** has adjusted, using a reasonable compensation factor, to compensate for **losses** between the **metering installation** and the **point of connection**.
- "(3) For the purposes of subclause (2), the relevant **dispatchable load purchaser** must have a **metering installation** that is **certified** in accordance with Part 10.

**"15.5C Aggregating and rounding dispatchable load information**

- "(1) When preparing **dispatchable load information** required under clause 15.5A, a **dispatchable load purchaser** must—
  - "(a) aggregate **dispatchable load information** to the following level:
    - "(i) **NSP code**; and
    - "(ii) **dispatch-capable load station identifier**; and
    - "(iii) **loss category code**; and
    - "(iv) **trading period**; and
  - "(b) must round **dispatchable load information**—
    - "(i) to 2 decimal places; and
    - "(ii) so that if the digit to the right of the second decimal place is—
      - "(A) greater than or equal to 5, the second digit is rounded up; or
      - "(B) less than 5, the second digit is unchanged.



- "(2) When aggregating **dispatchable load information** to the **NSP** code, the **dispatchable load purchaser** must use the **NSP** code as shown on the **registry** at the time the **volume information** is derived.

**"15.5D Dispatchable load information to be delivered to reconciliation manager**

- "(1) Each **dispatchable load purchaser** must provide to the **reconciliation manager**—
- "(a) **dispatchable load information** for each **GXP** at which the **dispatchable load purchaser** has purchased **electricity** for a **dispatch-capable load station** during the **consumption period** immediately before each **reconciliation period**; and
- "(b) if the **dispatchable load purchaser** knows that **dispatchable load information** previously provided has changed, revised **dispatchable load information** for the **consumption period** for which the **dispatchable load information** was initially provided.
- "(2) Each **dispatchable load purchaser** must provide—
- "(a) the information described in subclause (1)(a) by 1600 hours on the 4th **business day** of each **reconciliation period**; and
- "(b) the information described in subclause (1)(b) by 1600 hours on the 13th **business day** of each **reconciliation period**."

**78 Accuracy of submitted information**

- (1) The heading to clause 15.12 is amended by omitting "submitted".
- (2) Clause 15.12 is amended by inserting "15.20A," after "in accordance with clauses".

**79 New heading and clauses 15.20A to 15.20E inserted**

The following heading and clauses are inserted after clause 15.20:

*"Reconciliation manager processes dispatchable load information and provides it to the clearing manager"*

**"15.20A Reconciliation manager must update revised dispatchable load information"**

"(1) This clause applies to any revised **dispatchable load information** provided under clause 15.5D(2)(b).

"(2) The **reconciliation manager** must,—

"(a) if the **dispatchable load information** to which this clause applies relates to 1 or more **consumption periods** being 1, 3, 7, or 14 months before the current **reconciliation period**, conduct a further update for each applicable **consumption period**; or

"(b) if the **dispatchable load information** to which this clause applies relates to a **consumption period** other than the **consumption periods** set out in paragraph (a),—

"(i) store the **dispatchable load information** until the **consumption period** becomes 1 of the **consumption periods** set out in paragraph (a); and

"(ii) then conduct a further update under paragraph (a).

"(3) The **reconciliation manager** must not update revised **dispatchable load information** arising after month 14.

"(4) Subclause (3) does not prevent the correction of information under clauses 14.64, 15.26(2), or 15.29.

**"15.20B Reconciliation manager summarises dispatchable load information received"**

"(1) The **reconciliation manager** must apply **loss factors** to **dispatchable load information** received under clause 15.5D—

"(a) for each **trading period**; and

"(b) using the **loss category** codes advised by the **dispatchable load purchaser** when submitting **dispatchable load information** under clause 15.5D.

- "(2) After applying **loss factors** under subclause (1), the **reconciliation manager** must summarise—
- "(a) into 1 file for each **consumption period, dispatchable load information** received under clause 15.5D(2)(a); and
  - (b) into 1 file for each **consumption period, dispatchable load information** received under clause 15.5D(2)(b) and updated under clause 15.20A.
- "(3) The **Authority** may, from time to time, direct the **reconciliation manager** to apply specified values for **loss factors** for each **loss category** for a **reconciliation period** for which the **registry** does not, for whatever reason, provide the **reconciliation manager** with the **loss factors** for each **loss category** in accordance with clause 11.26(b).
- "(4) If the **Authority** makes a direction under subclause (3), the **reconciliation manager** must apply the values as **loss factors** to all **dispatchable load information** for all **reconciliation periods** during which the direction applies.

**"15.20C Reconciliation manager to provide dispatchable load information to clearing manager**

The **reconciliation manager** must provide to the **clearing manager**—

- "(a) the information described in clause 15.20B(2)(a) by 1600 hours on the 7th **business day** of each **reconciliation period**; and
- "(b) the information described in clause 15.20B(2)(b) by 1200 hours on the last **business day** of each **reconciliation period**.

**"15.20D Reconciliation manager to provide dispatchable load information to dispatchable load purchasers**

At the same time the **reconciliation manager** provides the information described in clause 15.20C to the **clearing manager**, the **reconciliation manager** must provide each **dispatchable load**

**purchaser** with that part of the information which relates to the **dispatchable load purchaser**.

**"15.20E Invalid submission information**

- "(1) If a **dispatchable load purchaser** provides invalid **dispatchable load information** to the **reconciliation manager**, the **reconciliation manager** must request the **dispatchable load purchaser** to provide corrected **dispatchable load information**.
- "(2) If the **reconciliation manager** requests corrected information under subclause (1), the **dispatchable load purchaser** must, within a reasonable period,—
  - "(a) if the corrected information is available, provide the corrected information to the **reconciliation manager**; or
  - "(b) if the corrected information is not available, advise the **reconciliation manager**.
- "(3) Subclause (4) applies if the **reconciliation manager**—
  - "(a) cannot obtain corrected information within a reasonable period from the **dispatchable load purchaser**; or
  - "(b) the **dispatchable load purchaser** has advised under subclause (2)(b) that the information is unavailable.
- "(4) If this subclause applies, the **reconciliation manager** must—
  - "(a) correct the information by making a reasonable estimate; and
  - "(b) advise the **system operator** of the estimate."

**80 Functions requiring certification**

Clause 15.38(1) is amended as follows:

- (a) by revoking paragraph (c)(iii) and substituting the following sub-paragraphs:
  - "(iii) **half hour** and non **half hour volume information**; or
  - "(iv) **dispatchable load information**."

- (b) by inserting the following paragraph after paragraph (e):

"(ea) provision of **dispatchable load information.**"

## Schedule

cl 65

### New Schedule 13.8 inserted

#### "Schedule 13.8

cl 13.3A

#### "Approval of dispatch-capable load station

**"1 System operator to approve dispatch-capable load station**

A **purchaser** at a **non-conforming GXP** may apply to the **system operator** to have 1 or more devices approved as a **dispatch-capable load station**.

**"2 Applications for approval**

Each application for approval for a **dispatch-capable load station** must—

- "(a) be in writing; and
- "(b) list 1 or more devices that the applicant wishes to have approved as a **dispatch-capable load station**; and
- "(c) include sufficient information to enable the **system operator** to determine the application.

**"3 System operator must provide application to Authority and notify others of application**

On receipt of an application, the **system operator** must—

- "(a) provide a copy of the application to the **Authority**; and
- "(b) advise the following parties that an application has been received:
  - "(i) the relevant **grid owner**; and
  - "(ii) the **distributor** from whose **network** the **dispatch-capable load station** draws **electricity**; and
  - "(iii) the **pricing manager**; and
  - "(iv) the **clearing manager**; and
  - "(v) the **reconciliation manager**.

**"4 Factors that system operator must consider**

- "(1) Before the **system operator** approves 1 or more devices to be a **dispatch-capable load station**, it must consider—
- "(a) the effect an approval would have on the **system operator's** ability to meet the **PPOs**; and
  - "(b) whether the applicant—
    - "(i) is able to provide real time indications and measures to the satisfaction of the **system operator**; and
    - "(ii) has in place communication systems that meet the **system operator's** requirements; and
    - "(iii) is able to receive and acknowledge **dispatch instructions**; and
  - "(c) whether there is a substantial risk that **dispatch instructions** changing the level of load of the 1 or more devices that are the subject of the application may be offset by changes in **demand** in the same **trading period** from other load controlled by the applicant; and
  - "(d) whether the 1 or more devices are technically capable of complying with **dispatch instructions** to a level that does not adversely affect the **system operator's** ability to meet the **PPOs**; and
  - "(e) the **Authority's** view about whether the 1 or more devices are technically capable of complying with **dispatch instructions** to a level that would maintain **participants'** confidence in the integrity of **final prices**; and
  - "(f) any other matter the **system operator** reasonably considers relevant.
- "(2) In making a decision under subclause (1), the **system operator** must—
- "(a) ask the **Authority** for the **Authority's** view; and
  - "(b) take the **Authority's** view into account.

**"5 System operator may request additional information**

- "(1) Subclauses (2) and (3) apply to—
- "(a) an applicant:

- "(b) a **purchaser** who has a **dispatch-capable load station** that has been approved.
- "(2) The **system operator** may request a person to whom this clause applies to provide additional information.
- "(3) If the **system operator's** request is reasonable, the person must provide the requested information to the **system operator**.
- "(4) As soon as practicable after receiving the requested information, the **system operator** must provide a copy of the information to the **Authority**.

**"6 Applicant may withdraw or amend application at any time**

- "(1) An applicant may, at any time, amend or withdraw an application.
- "(2) The applicant must make the amendment or withdrawal—
  - "(a) in writing; and
  - "(b) by submitting it to the **system operator**.
- "(3) An amendment or a withdrawal (as the case may be) takes effect from the date of receipt by the **system operator**.
- "(4) As soon as possible after receiving an amendment or a withdrawal, the **system operator** must—
  - "(a) provide the amendment or withdrawal to the **Authority**; and
  - "(b) notify all **participants** listed in clause 3(b) of the amendment or withdrawal.

**"7 System operator's decision**

- "(1) The **system operator** must decide whether to—
  - "(a) approve an application; or
  - "(b) decline an application.
- "(2) If the **system operator** decides to approve an application, the **system operator** must assign a **dispatch-capable load station identifier** to each approved **dispatch-capable load station**.
- "(3) The **system operator** must, as soon as practicable after making a decision, advise the parties listed in subclause (4) in writing of—
  - "(a) the decision; and



- "(b) if the decision is to approve the application, any conditions that apply to the approval; and
  - "(c) the **system operator's** reasons for the decision.
- "(4) For the purpose of subclause (3), the **system operator** must advise the following parties:
- "(a) the applicant; and
  - "(b) the **Authority**; and
  - "(c) all **participants** listed in clause 3(b).

## "8 Timeframe for decision

- "(1) The **system operator** must make a decision under clause 7(1)—
- "(a) within 20 **business days** after the date on which the **system operator** receives the application; or
  - "(b) within any other period of time that has been agreed by the applicant and the **system operator**.
- "(2) Despite subclause (1), if the **system operator** requests additional information from the applicant under clause 5, the timeframes in subclause (1) are extended by the number of days the applicant takes to provide the additional information.

## "9 Authority to keep register of all current approvals

- "(1) The **Authority** must keep a register of all current approvals—
- "(a) granted under this Schedule; and
  - "(b) that have been notified to the **Authority** by the **system operator**.
- "(2) The **Authority** must keep the register available for public inspection free of charge—
- "(a) at its offices, during normal office hours; and
  - "(b) on its website, at all reasonable times.
- "(3) The register must state, for each approval granted,—
- "(a) the name of the applicant; and
  - "(b) the name of the **dispatch-capable load station**; and
  - "(c) the **dispatch-capable load station identifier**; and
  - "(d) the date from which the approval takes effect; and

"(e) the nature of the approval, including any conditions.

#### **"10 Effect of approval**

- "(1) When approving an application for a **dispatch-capable load station**, the **system operator** must specify a date from which an approval takes effect.
- "(2) The **system operator** must not set a date from which an approval takes effect that is earlier than 10 **business days** after the date the approval was granted.
- "(3) An approval of a **dispatch-capable load station** takes effect from the date specified in the approval.

#### **"11 System operator may impose conditions**

- "(1) The **system operator** may impose conditions on any approval it grants.
- "(2) Conditions may include, but are not limited to, 1 or more of the following:
  - "(a) a requirement that the applicant has in place real time indications and measures to the satisfaction of the **system operator**:
  - "(b) a requirement that the applicant has in place a system for communicating with the **system operator** to the satisfaction of the **system operator**:
  - "(c) a requirement that the applicant performs tests of load controlling systems on a regular basis.

#### **"12 System operator may amend, revoke, or suspend approval**

- "(1) The **system operator** may—
  - "(a) amend an approval:
  - "(b) revoke an approval:
  - "(c) suspend an approval.
- "(2) An amendment takes effect from—
  - "(a) the date it is made; or
  - "(b) a later date specified by the **system operator**.
- "(3) A revocation takes effect from—
  - "(a) the date it is made; or

- "(b) a later date specified by the **system operator**.
- "(4) A suspension—
  - "(a) takes effect from—
    - "(i) the date it is made; or
    - "(ii) a later date specified by the **system operator**;  
and
  - "(b) remains in effect until the date specified by the **system operator**.

**"13 System operator to give reasons for amending, revoking, or suspending approval**

As soon as possible after the **system operator** amends, revokes, or suspends an approval, it must advise the **purchaser** of the reasons for the revocation, suspension, or amendment (as the case may be).

**"14 System operator to notify of amendment, revocation, or suspension of approval**

As soon as possible after the **system operator** amends, revokes, or suspends an approval, it must advise the following parties of the amendment, revocation, or suspension—

- "(a) the **Authority**;
- "(b) all **participants** listed in clause 3(b)."

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**Explanatory Note**

*This note is not part of the Code Amendment, but is intended to indicate its general effect.*

This amendment to the Electricity Industry Participation Code 2010 comes into force on 27 June 2013.

This amendment amends Parts 1, 13, 14 and 15 of the Electricity Industry Participation Code 2010 to implement the Electricity Authority's dispatchable demand proposal, to enable demand-side participants at non-conforming GXPs to respond to wholesale market conditions by electing to subject load to be dispatched.

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