

13.71 System operator to use certain things

- (1) In determining **dispatch instructions**—when implementing a **dispatch schedule** under clause 13.72(1)(a), the **system operator** must use—
 - (a) the price order in the current **dispatch schedule**; and
 - (b) any revised **offer** from a **generator** submitted in accordance with clause 13.19 (except for revised **offers** submitted by an **intermittent generator** under clause 13.19(1)(a)(iii)); and
 - (c) any ramp rates of **generators**. For **intermittent generators**, the ramp rates are those agreed between the **intermittent generator** and the **system operator**; and
 - (d) any revised **nominated bid** quantities from a **purchaser** submitted in accordance with clause 13.19A; and
 - (e) any additional information regarding the future output of an **intermittent generator** submitted by an **intermittent generator** in agreement with the **system operator**; and
 - (f) the actual profile of **demand** during the previous **trading period**; and
 - (g) the expected profile of **demand** within the current **trading period** and the subsequent **trading periods**; and
 - (h) the current output levels of each **generator**; and
 - (i) any revised **reserve offer** from an **ancillary service agent** advised in accordance with clause 13.48; and
 - (j) any revised information received from a **grid owner** under clause 13.34(1); and
 - (k) the order in which reserves may be called as specified by the **system operator** from time to time.
- (2) In determining **dispatch instructions** under clause 13.72(1)(b), the **system operator** must use revised **nominated dispatch bids** submitted under clause 13.19A.

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13.73 Content of dispatch instructions to generators, ancillary service agents, and dispatchable load purchasers

- (1) The **system operator** must ensure that each **dispatch instruction** it issues under clause 13.72(1)(a) instructs the **generator** or **ancillary service agent** to carry out 1 of the following in relation to a **generating plant**, a **generating unit**, a **block dispatch group**, a **station dispatch group**, a **frequency keeping unit**, or **interruptible load**:
 - (a) provide a quantity of **active power**;
 - (b) provide a quantity of **instantaneous reserve**;
 - (c) provide a quantity and quality of reserve power or alternative to regulate frequency continuously;
 - (d) provide a quantity of **reactive power**;
 - (e) adjust transformer tap positions to maintain voltage levels;
 - (f) provide a level of voltage;
 - (g) **synchronise** or **de-synchronise generating plant** within the current **trading period** or the next **trading period** either directly or in accordance with any process that may be agreed with the **generator**;
 - (h) switch on or switch off schemes for over frequency tripping where such capability exists in **generating plant** that a **generator** has offered to provide to the **system operator**;

- (i) manage the **generating plant** within a **block dispatch group** or **station dispatch group** so as to ensure the largest single reserve risk within that **block dispatch group** or **station dispatch group** does not exceed the relevant maximum reserve risk advised by the **system operator** for the North Island or the South Island for each **trading period**;
 - (j) manage the total aggregate generation for each **sub-block dispatch group** or **sub-station dispatch group** for that **generator** so as not to exceed the total sum of the **dispatched** quantities for each **generating plant** or **generating unit** comprising that **sub-block dispatch group** or **sub-station dispatch group** for the duration of the notice received under clauses 13.60, 13.61, or 13.64 to 13.66;
 - (k) manage the total aggregate generation for each **block dispatch group** or **station dispatch group** for that **generator** so as to meet the total sum of the **dispatched** quantities for each **generating station** or **generating unit** comprising that **block dispatch group** or **station dispatch group**.
- (2) The **system operator** must ensure that each **dispatch instruction** issued under clause 13.72(1)(b) instructs the **dispatchable load purchaser** to use a specified quantity of **electricity** in relation to a **dispatch-capable load station**.

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13.76 System operator to issue and log dispatch instructions

- (1) The **system operator** must issue **dispatch instructions**,—
 - (a) to each **generator** (other than a generator receiving **dispatch instructions** in its capacity as an **ancillary service agent**), using an **approved system**; and
 - (b) to each **dispatchable load purchaser** that has submitted a **nominated dispatch bid**, on WITS; and
 - (c) to each **ancillary service agent**, using an **approved system** or as otherwise agreed in the relevant **ancillary service arrangement** ~~verbally or in writing~~.
- (2) *[Revoked]*.
- (3) The **system operator** must log and record each **dispatch instruction**.
- (4) Each **generator** and each **ancillary service agent** must log each **dispatch instruction** received from the **system operator**.
- (5) The **system operator** must provide a copy of each **dispatch instruction**—
 - (a) to the **clearing manager**, by 1600 hours on the 7th **business day** of the **billing period** after the **billing period** in which the **system operator** issues and logs the **dispatch instruction**; and
 - (b) to the **Authority**, by 1600 hours on the first **business day** after the day on which the **system operator** issues and logs the **dispatch instruction**.
- (6) For the purpose of subclause (5), if the **system operator** has issued more than 1 **dispatch instruction** for a **dispatch-capable load station** for the same **trading period**, the **system operator** must provide a copy of the latest **dispatch instruction**.

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13.79 Acknowledgement of dispatch instructions

If the **system operator** has issued a **dispatch instruction** to a **generator** or an **ancillary service agent**, that person must acknowledge to the **system operator** receipt of that **dispatch instruction**:

- (a) within 4 minutes of receiving that **dispatch instruction**, and must use its reasonable endeavours to acknowledge to the **system operator** receipt of the **dispatch instruction** within 3 minutes of receiving the **dispatch instruction**; or
- (b) if the **system operator** and that person have entered into a written agreement relating to the person's acknowledgement of receipt of **dispatch instructions** that conflicts with subclause (a), in accordance with that agreement. The agreement may include an agreement that the person need not acknowledge receipt of some or all **dispatch instructions**.

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13.81 Backup procedures if communication not possible

- (1) The **system operator** must follow the backup procedures specified by it from time to time for issuing **dispatch instructions** if—
 - (a) ~~none of the relevant mechanisms described in clause 13.76(1)(a) or 13.76(1)(c) is~~ are not available to issue **dispatch instructions** under clause 13.72(1)(a); or
 - (b) subject to any agreement under clause 13.79(b), the **system operator** does not receive an acknowledgement from a **generator** or **ancillary service agent** of receipt of a **dispatch instruction** within 10 minutes after issuing the **dispatch instruction**.
- (2) If the **system operator** is not able to issue a **dispatch instruction** on WITS under clause 13.476(1)(b) to a **dispatchable load purchaser** that has submitted a **nominated dispatch bid**, the **dispatchable load purchaser** must follow the backup procedures specified by the **system operator**.

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13.83 Generators to make staff or facilities available to meet dispatch instructions

- (1) Each **generator** must ensure, with respect to ~~each of its **generating plants**~~ that is the subject of an **offer**, that appropriate personnel or facilities are available to receive, acknowledge (subject to any agreement under clause 13.79(b)), and comply with any **dispatch instruction** given by the **system operator** to the **generator**.
- (2) Nothing in this clause limits the ability of a **generator** to have a control centre that operates 1 or more items of **generating plant** by remote control.

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13.84 Ancillary service agents to make staff or facilities available to meet dispatch instructions

Each **ancillary service agent** must ensure, ~~with respect to any **instantaneous reserve** that is the subject of a **reserve offer** for the **trading period**,~~ that appropriate personnel or facilities are available to receive, acknowledge (subject to any agreement under clause 13.79(b)), and comply with any **dispatch instruction** given by the **system operator** to that **ancillary service agent**.

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13.86 Generators and ancillary service agents not obliged to comply with dispatch instructions below threshold

~~For any **generating plant, generating unit, block dispatch group** or **station dispatch group**, a **A generator** or **ancillary service agent** providing **instantaneous reserve** or **frequency keeping** is not required to comply with 1 or more **dispatch instructions** given by the **system operator** in accordance with clause 13.72(1)(a) if implementing the **dispatch instruction** or those **dispatch instructions** together would change by less than or equal to—~~

- (a) for **ancillary service agents**, 1 MW from the last **dispatch instruction** that the **ancillary service agent** complied with; or
- (b) for **generators** other than **type A co-generators**, 1 MW from the last **dispatch instruction** that the **generator** complied with; or
- (c) for **type A co-generators**, 5 MW from the last **dispatch instruction** that the **type A co-generator** complied with.