

ISO Rules

Part 200 Markets

Division 203 Energy Market

Section 203.4 Delivery Requirements for Energy



External Consultation Draft
August 31, 2018

Applicability

- 1 Section 203.4 applies to:
- (a) a **pool participant** with a generating **source asset** that has an associated current **offer** when participating in the energy market; and
 - (b) a **pool participant** with a load **sink asset** that has an associated current **offer** when participating in the energy market; and
 - (c) **the ISO**.

Requirements

Compliance Responsibilities

2(1) A **pool participant** may only deliver energy to the **interconnected electric system** from a generating **source asset** pursuant to a **dispatch** or a **directive** the **ISO** issues.

(2) A **pool participant** must:

- (a) operate its generating **source assets** or load **sink assets**, or cause them to be operated; and
- (b) respond to **dispatches** from the **ISO**,

using **good electric industry practice**, including the design, implementation and use of reasonable **dispatch** protocols, together with personnel and software systems designed to detect and address errors or omissions in a timely fashion.

Steady State Compliance

3(1) Subject to subsection 3(3), a **pool participant** must not, during **steady state**, vary the average MW it delivers from a generating **source asset** or consumes from a load **sink asset**, in any **10 minute clock period** from the **dispatch** MW by more than the **allowable dispatch variance**.

(2) Subject to subsection 3(3), a **pool participant** that is supplying **regulating reserve** from a generating **source asset** or a load **sink asset** must ensure that the MW delivered in any **10 minute clock period** is:

- (a) not less than the **dispatch** MW minus the **allowable dispatch variance**; and
- (b) not greater than the **dispatch** MW plus the **regulating reserve** plus the **allowable dispatch variance**.

(3) A **pool participant**, after a load **sink asset** that is subject to a **dispatch** for 0 MW has met the requirements for the first **10 minute clock period** as described in subsections 3(1) and 3(2), is no longer subject to the requirements of subsections 3(1) and 3(2).

Ramping Compliance

4(1) A **pool participant** must move the output of a generating **source asset** or the consumption of a load **sink asset** which is:

- (a) the subject of a **dispatch**; and

ISO Rules

Part 200 Markets

Division 203 Energy Market

Section 203.4 Delivery Requirements for Energy



(b) **ramping**

towards the MW level indicated in that **dispatch** within 10 minutes of the time specified in the **dispatch** but not prior to the time specified in the **dispatch**.

(2) A **pool participant** must ensure that each generating **source asset** or load **sink asset** reaches the MW specified in an energy market **dispatch**, plus or minus the **allowable dispatch variance** for that generating **source asset** or load **sink asset** in:

- (a) no longer than the period of time calculated as follows:
 - (i) divide the change in **dispatch** MW by the **ramp rate** the **pool participant** submits;
 - (ii) add 40% of the time calculated in subsection 4(2)(a)(i) or 5 minutes, whichever is greater; and
 - (iii) add the 10 minutes referred to in subsection 4(1); and
- (b) no sooner than the period of time calculated as follows:
 - (i) divide the change in **dispatch** MW by the **ramp rate** the **pool participant** submits; and
 - (ii) subtract 40% of the time calculated in subsection 4(2)(b)(i) or 5 minutes, whichever is greater.

Operational Deviation

5(1) A **pool participant** must, if a generating **source asset** or load **sink asset** experiences an **operational deviation** in excess of 50 MW, verbally inform the **ISO** as soon as practical of the occurrence of the **operational deviation** and provide a description of the cause if known.

(2) A **pool participant** must inform the **ISO** of the information required under subsection 5(1) on a telephone line the **ISO** designates, which must contain a voice recording system.

(3) A **pool participant** must, if an **operational deviation** extends for 20 minutes or longer, submit an **available capability** restatement or MW restatement for the generating **source asset** or load **sink asset** that represents the operational capability of the generating **source asset** or load **sink asset**, and must do so no later than 20 minutes after the commencement of the **operational deviation**.

Exceptions to Non-Compliance

6 Notwithstanding the provisions set out in subsections 3, 4 and 5, the **ISO** must not determine that a **pool participant** is non-compliant with a **dispatch** for a generating **source asset** or load **sink asset** if the **pool participant** has met its responsibilities as set out in subsection 2 and 1 or more of the following circumstances occur:

- (a) the generating **source asset** or load **sink asset** is **ramping** into position to provide **operating reserve** in response to a **dispatch** in the 15 minutes before the time indicated in that **dispatch**;
- (b) the generating **source asset** is operating below the **minimum stable generation** level indicated in the Energy Trading System, but only if that generating **source asset** is:
 - (i) synchronizing and its **available capability** the **pool participant** submitted is equal to its **minimum stable generation** and it has received a **dispatch** for that quantity, in MW;

ISO Rules

Part 200 Markets

Division 203 Energy Market

Section 203.4 Delivery Requirements for Energy



- (ii) going off line and its **available capability** the **pool participant** submitted is equal to 0 and it has received a **dispatch** for that quantity, in MW;
 - (iii) unable to follow the **ramp rate** the **pool participant** submitted when its output is being increased to its **minimum stable generation** and the **pool participant** has submitted a verbal plan to the **ISO** indicating a proposal for **ramping to minimum stable generation**, which verbal plan must provide an estimate of the time required to achieve the **ramp rate** and be updated for deviations of greater than 30 minutes or 50 MW; or
 - (iv) stopped at an output level not identified in the verbal plan referenced in subsection 6(1)(b)(iii) above, but which is below **minimum stable generation** for more than 30 minutes for an operational reason and the **pool participant** has submitted a restatement of the **available capability** accordingly;
- (c) the generating **source asset** is responding to abnormal frequency through automatic **governor** or **governor system** action;
 - (d) the load **sink asset** is responding to abnormal frequency;
 - (e) an **operational deviation** has occurred and the **pool participant** has complied with subsection 5; and
 - (f) energy is being delivered to the **interconnected electric system** from a generating **source asset** or load **sink asset** while it is being tested or commissioned or both, in accordance with applicable provisions of the **ISO rules**.

Concurrent Energy and Operating Reserve Requirements

7(1) The **ISO** must, when assessing a **pool participant**'s compliance with section 205.2 of the **ISO rules**, *Issuing Dispatches and Directives for Operating Reserve* in a situation where there are concurrent energy and **spinning reserve** requirements or energy and **supplemental reserve** requirements, consider the time of the energy **dispatch** to be:

- (a) 15 minutes after the **directive** for **spinning reserve** or **supplemental reserve** in the case of subsection 4(3); and
- (b) the time the **pool asset** is providing the amount of **real power** described in of section 205.5 of the **ISO rules**, *Spinning Reserve Technical Requirements and Performance Standards*, or section 205.6 of the **ISO rules**, *Supplemental Reserve Technical Requirements and Performance Standards*, in the case of subsection 4(4);
- (c) the later of 15 minutes after the **directive** for **spinning reserve** or **supplemental reserve** or the time of the **dispatch** in the case of subsection 4(5); and
- (d) the time the **pool asset** is providing the amount of **real power** described in of section 205.5 of the **ISO rules**, *Spinning Reserve Technical Requirements and Performance Standards*, or section 205.6 of the **ISO rules**, *Supplemental Reserve Technical Requirements and Performance Standards*, in the case of subsection 4(6).

(2) The **ISO** must, when assessing a **pool participant**'s compliance with section 205.2 of the **ISO rules**, *Issuing Dispatches and Directives for Operating Reserve* in a situation where there are concurrent energy and **spinning reserve** requirements or energy and **supplemental reserve** requirements, consider the MW quantity to be the energy **dispatch** quantity plus the **spinning reserve** or **supplemental reserve** quantity while the **directive** remains in effect.

ISO Rules

Part 200 Markets

Division 203 Energy Market

Section 203.4 Delivery Requirements for Energy



Revision History

Date	Description
xxxx-xx-xx	Revised to accommodate load assets, replaced “generating asset steady state” with “steady state”, amended subsection 5(1) with 50 MW threshold, and administrative revisions.
2014-12-23	Added subsection 7 to address requirements in section 205.2 of the ISO rules related to concurrent energy and operating reserve
2013-01-08	Initial release