

# 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,

when participating in the energy market.

#### 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.

#### **Generating-Asset Steady State Compliance**

3(1) A Subject to subsection 3(3), a pool participant must not, during **generating-asset 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) A 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:

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

towards the MW level indicated in that **dispatch** within ~~ten (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** ~~reaches generating asset steady state 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 ~~forty percent (40%)~~% of the time calculated in subsection 4(2)(a)(i) or ~~five (5)~~ minutes, whichever is greater; and
  - (iii) add the ~~ten (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 ~~forty percent (40%)~~% of the time calculated in subsection 4(2)(b)(i) or ~~five (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 ~~twenty (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 ~~twenty (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 ~~one (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 ~~fifteen (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;

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- (ii) going off line and its **available capability** the **pool participant** submitted is equal to ~~zero (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 ~~be~~ provide an estimate of the time required to achieve the **ramp rate** and be updated for deviations of greater than ~~thirty (30)~~ minutes or ~~fifty (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 ~~thirty (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~~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
- ~~(e)~~ 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 ~~subsections 4(3) through 4(6)~~ of 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) ~~fifteen (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 ~~subsection 7(1)~~ of section 205.5 of the **ISO rules**, *Spinning Reserve Technical Requirements and Performance Standards*, or ~~subsection 7(1)~~ of 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 ~~fifteen (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 ~~subsection 7(1)~~ of section 205.5 of the **ISO rules**, *Spinning Reserve Technical Requirements and Performance Standards*, or ~~subsection 7(1)~~ of 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 ~~subsections 4(3) through 4(6)~~ of 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 the **spinning reserve** or **supplemental reserve** quantity while the **directive** remains in effect.

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#### Revision History

<b>EffectiveDate</b>	<b>Description</b>
<u>xxxx-xx-xx</u>	<u>Revised to accomodate load assets, replaced “generating asset steady state” with “steady state”, amended subsection 5(1) with 50 MW threshold, and administrative revisions.</u>
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