

ISO Rules

Part 200 Markets

Division 203 Energy Market

Section 203.4 Delivery Requirements for Energy

External Consultation Draft

March 12, 2019

Applicability

1 Section 203.4 applies to:

- (a) a **pool participant** with a generating **source asset** that has an associated current **offer**; and
- (b) 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** pursuant to a **dispatch** or a **directive** the **ISO** issues.

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

- (a) operate its generating **source 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 **pool participant** must not, during **generating asset steady state**, vary the average MW it delivers from a generating **source asset** in any **10 minute clock period** ~~from the dispatch MW by more than~~outside the **allowable dispatch variance**.

(2) A **pool participant** that is supplying **regulating reserve** from a generating **source asset** must, ~~notwithstanding subsection 3(1)~~, ensure that the average MW delivered in any **10 minute clock period** is: not outside the allowable dispatch variance plus the regulating reserve.

~~(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.~~

Ramping Compliance

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

- (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**.

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(2) A **pool participant** must ensure that each generating **source asset** reaches **generating asset steady state** 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** experiences an **operational deviation**, 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** that represents the operational capability of the generating **source 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** if the **pool participant** has met its responsibilities as set out subsection 2 and one (1) or more of the following circumstances occur:

- (a) the generating **source 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;
 - (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**,

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- 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 responding to abnormal frequency through automatic **governor** action;
 - (d) 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** 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 plus the **spinning reserve** or **supplemental reserve** quantity while the **directive** remains in effect.

Revision History

Effective	Description
2013-01-08 2019-xx-xx	Initial release Amended Section 3(1) and 3(2) to clarify allowable dispatch variance implementation

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2014-12-23	Added subsection 7 to address requirements in section 205.2 of the ISO rules related to concurrent energy and operating reserve
<u>2013-01-08</u>	<u>Initial release</u>