

ISO Rules

Part 200 Markets

Division 203 Energy Market

Section 203.4 Delivery Requirements for Energy



External Consultation Draft October 22, 2018

Applicability

1 Section 203.4 applies to:

(a) a **pool participant** with a generating **source asset** that has an associated current **offer**; ~~and~~
when participating in the energy market; and

(b) ~~the ISO,~~

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.

~~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** 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 **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**.

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

(b) **ramping**

ISO Rules

Part 200 Markets

Division 203 Energy Market

Section 203.4 Delivery Requirements for Energy



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~~ 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**, 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;
 - (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;

ISO Rules

Part 200 Markets

Division 203 Energy Market

Section 203.4 Delivery Requirements for Energy



- (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 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
- (ef) 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:

- ~~fifteen (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 ~~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.

ISO Rules

Part 200 Markets

Division 203 Energy Market

Section 203.4 Delivery Requirements for Energy



Revision History

<u>EffectiveDate</u>	<u>Description</u>
<u>2013-01-08xxx-xx-xx</u>	<u>Initial release</u> Revised to accommodate load assets, replaced “generating asset steady state” with “steady state” 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
<u>2013-01-08</u>	<u>Initial release</u>