

# ISO Rules

## Part 200 Markets

### Division 205 Ancillary Services

#### Section 205.6 Supplemental Reserve Technical Requirements and Performance Standards



#### Applicability

- 1 Section 205.6 applies to:
  - (a) a **pool participant**; and
  - (b) the **ISO**,

in relation to qualifying for, providing and utilizing **supplemental reserve**.

#### Requirements

##### General

- 2 A **pool participant** that provides or anticipates providing **supplemental reserve** must satisfy the technical requirements set out in this section 205.6 and must continue to satisfy such technical requirements while providing **supplemental reserve**.

##### Minimum Pool Asset Requirements

- 3(1) A **pool participant** must ensure that its **pool asset** is capable of providing:
  - (a) in the case of **supplemental reserve** sourced from within the **balancing authority area** of the **ISO**, a minimum of five (5) MW of **supplemental reserve**; and
  - (b) in the case of **supplemental reserve** sourced from outside the **balancing authority area** of the **ISO**, a minimum of ten (10) MW of **supplemental reserve**.
- (2) A **pool participant** must ensure that its **pool asset** is capable of providing the amount of **real power** the **ISO** qualifies the **pool asset** to provide under subsection 4(1) for the period from ten (10) minutes after receiving a **directive** to provide **supplemental reserve** to sixty (60) minutes after receiving a **directive** to provide **supplemental reserve**.
- (3) A pool participant must ensure that the **pool asset** complies with subsections 3(1) and 3(2) by measuring the gross **real power** of the **pool asset**.

##### ISO Qualifying a Pool Asset

- 4(1) The **ISO** must, prior to any **pool asset** providing **supplemental reserve**, assess the eligibility of such **pool asset** and determine the **real power** in MW it is qualified to provide.
- (2) The **ISO** must, in determining the **real power** quantity a **pool asset** is qualified to provide, consider the following:
  - (a) whether the **pool asset** participates in a **remedial action scheme**;
  - (b) the total **operating reserve** that could be lost during a single **contingency**; and
  - (c) the maximum **real power** capability and minimum **real power** capability of the **pool asset**.
- (3) The **ISO** must advise a **pool participant** of the eligibility of the **pool asset** within sixty (60) **days** of the **ISO** receiving an application for **supplemental reserve**.

##### Applying to Provide Supplemental Reserve

- 5 A **pool participant** may apply to provide **supplemental reserve** by completing and providing to the **ISO** the documents the **ISO** specifies and posts on the AESO website.

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#### Performance Requirements to a Dispatch

**6(1)** A **pool participant** will not be paid for supplemental reserve unless the pool participant ensures that:

- (a) upon receipt of a **dispatch** to provide **supplemental reserve**, if the time stated in the **dispatch** for the pool asset to be in position to provide the **real power** quantity indicated in the **dispatch** is:
    - (i) more than fifteen (15) minutes from the time the **pool participant** receives the **dispatch**, the **pool asset** is in position at the time stated in the **dispatch**; or
    - (ii) fifteen (15) minutes or less from the time the **pool participant** receives the **dispatch**, the **pool asset** is in position at the time stated in the **dispatch** or as soon as possible thereafter but in any event, not more than fifteen (15) minutes after receiving the **dispatch**; and
  - (b) the **pool asset** maintains the ability to provide the **real power** quantity corresponding to the **dispatch** quantity, as measured in accordance with subsection 3(3):
    - (i) by the times set out in subsections 6(1)(a)(i) or (ii); and
    - (ii) within a tolerance of minus:
      - (A) one (1) MW for a **dispatch** of less than or equal to twenty (20) MW; or
      - (B) five percent (5%) for a **dispatch** greater than twenty (20) MW;
- for as long as the **dispatch** is in effect.

#### Performance Requirements to a Directive

**7(1)** A **pool participant** must, within ten (10) minutes after receiving a **directive** to provide **supplemental reserve**, ensure that the **pool asset** is providing a quantity of **real power** equal to the instantaneous amount of **real power** of the **pool asset** at the time of the **directive** plus the amount of **real power** set out in the **directive**, as measured in accordance with subsection 3(3).

**(2)** A **pool participant** must ensure that, from the first time the **pool asset** achieves the quantity of **real power** set out in subsection 7(1) to the time fifteen (15) minutes after the time of the **directive**, the average quantity of **real power** provided by the **pool asset** is equal to or more than the quantity set out in subsection 7(1), as measured in accordance with subsection 3(3).

**(3)** A **pool participant** of a **pool asset** must ensure that, for each consecutive ten (10) minute interval starting fifteen (15) minutes following the receipt of a **directive**, the average **real power** from the **pool asset** equals the quantity set out in subsection 7(1), as measured in accordance with subsection 3(3), within a tolerance of:

- (i) five (5) MW for a load **pool asset** or a generating **pool asset** with a **maximum capability** of two hundred (200) MW or less; or
- (ii) ten (10) MW for a **pool asset** with a **maximum capability** of greater than two hundred (200) MW.

**(4)** Notwithstanding subsection 3(2), a **pool participant** must ensure the **pool asset** continues to provide the average **real power** set out in subsection 7(3) for as long as the **directive** is in effect.

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(5) Notwithstanding subsections 7(1) through 7(4), a **pool participant** following the receipt of a **directive** for **supplemental reserve** to zero (0) must as soon as possible after receiving the **directive** to zero (0) MW, and, in any event, not more than fifteen (15) minutes after receiving the **directive** to zero (0) MW:

- (a) ensure the generating **pool asset** is within the **allowable dispatch variance** of its current energy **dispatch**; or
- (b) ensure the load **pool asset** is in position to provide the **real power** quantity indicated in its current **dispatch** for **supplemental reserve**.

#### Test Requirements

8 The **ISO** may request that a **pool participant** test its **pool asset**'s responses to **dispatches** and **directives**:

- (a) prior to allowing the **pool asset** to provide **supplemental reserve**; or
- (b) if the **ISO** provides evidence that the **supplemental reserve** exhibits behaviour that is inconsistent with the requirements of this section 205.6.

#### Maintaining Eligibility

9(1) The **ISO** may, if a **pool participant** refuses to comply with:

- (a) refusing to comply with a testing request pursuant to subsection 8;
- (b) any other provision of this section 205.6; or
- (c) other **ISO rules** that affect the provision of **supplemental reserve**;

provide notice to the **pool participant** that it cannot participate in the **supplemental reserve** market until the **pool participant** is compliant with this section 205.6 and all other **ISO rules** that affect the provision of **supplemental reserve**.

(2) A **pool participant** that has received a notice pursuant to subsection 9(1) must not submit an **offer** for **supplemental reserve** until the **ISO** confirms the **pool participant** is compliant with this section 205.6 and all other **ISO rules** that affect the provision of **supplemental reserve**.

#### Revision History

Effective	Description
2014-12-23	Initial release