

# 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**.

#### Requirements

##### Application for Qualification to Provide Supplemental Reserve

- 2(1) A **pool asset** must be qualified by the **ISO** in order to provide **supplemental reserve**.
- 2(2) A **pool participant** seeking to have a **pool asset** qualified by the **ISO** to provide **supplemental reserve** must provide the **ISO** with:
  - (a) a completed application form, available on the AESO website; and
  - (b) the data and records that the **ISO** specifies in the application form.

##### Eligibility to Provide Supplemental Reserve

- 3 A **pool participant** seeking to have a **pool asset** qualified by the **ISO** to provide **supplemental reserve** must ensure that its **pool asset** has at least one (1) **supplemental reserve resource** that is at a minimum, capable of providing:
  - (a) 5 MW of **supplemental reserve**; and
  - (b) the amount of **real power** applied for under subsection 2(2) for a period of sixty (60) minutes.

##### Qualification of a Pool Asset to Provide Supplemental Reserve

- 4(1) The **ISO** may qualify a **pool asset** to provide **supplemental reserve** if one (1) or more **supplemental reserve resources** of the **pool asset** meet the eligibility criteria set out in subsection 3.
- 4(2) The **ISO** must, after qualifying a **pool asset** under subsection 4(1), determine the **real power** quantity in MW that each **supplemental reserve resource** of the **pool asset** is capable of providing, with consideration given to the following:
  - (a) whether the **supplemental reserve resource** participates in a **remedial action scheme**;
  - (b) the total **operating reserve** that could be lost during a single **contingency**;
  - (c) the maximum **real power** capability and minimum **real power** capability of each **supplemental reserve resource** of the **pool asset**; and
  - (d) any other factor that the **ISO** considers relevant.
- 4(3) The **ISO** must advise a **pool participant** whether its **pool asset** is qualified to provide **supplemental reserve** within sixty (60) **days** of the **ISO** receiving a completed application under subsection 2(2).

##### Performance Requirements when under Dispatch to Provide Supplemental Reserve

- 5(1) A **pool participant** must ensure that, following the receipt of a **dispatch** to provide **supplemental reserve**, one (1) or more **supplemental reserve resources** of the **pool asset** are positioned to provide

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the **real power** set out in the **dispatch**, within a total tolerance of minus:

- (a) 1 MW for a **dispatch** of less than or equal to 20 MW; or
- (b) 5% of the **dispatch** quantity for a **dispatch** greater than 20 MW.

**(2)** A **pool participant** must ensure that each **supplemental reserve resource** being used to provide **supplemental reserve** meets the requirements set out in subsection 5(1) beginning at:

- (a) the time stated in the **dispatch**, for a **dispatch** with a time more than fifteen (15) minutes from the time the **pool participant** receives the **dispatch**; or
- (b) 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**, for a **dispatch** with a time fifteen (15) minutes or less from the time the **pool participant** receives the **dispatch**.

**(3)** A **pool participant** will not be paid for **supplemental reserve** unless the **pool participant** ensures that the **supplemental reserve resources** being used to provide **supplemental reserve** meet the requirements set out in subsections 5(1) and 5(2).

#### Performance Requirements when Responding to a Directive to Provide Supplemental Reserve

**6(1)** A **pool participant** must, within ten (10) minutes following receipt of a **directive** to provide **supplemental reserve**, ensure that its **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** and the amount of **real power** set out in the **directive**.

**(2)** A **pool participant** must ensure that, from the first time its **pool asset** achieves the response set out in subsection 6(1) to the time fifteen (15) minutes following receipt of the **directive**, the **pool asset** is providing an average response equal to or greater than the amount of **real power** set out in the **directive**.

**(3)** A **pool participant** must ensure that, for each consecutive ten (10) minute interval beginning fifteen (15) minutes following the receipt of a **directive**, the average response from the **pool asset** equals the amount of **real power** set out in the **directive**, within a tolerance of plus or minus:

- (a) 5 MW for a **pool asset** with a **maximum capability** of 200 MW or less; or
- (b) 10 MW for a **pool asset** with a **maximum capability** of greater than 200 MW.

**(4)** Where a **pool asset** does not have a **maximum capability**, the tolerances set out in subsection 6(3) will be measured against the maximum qualified facility capacity of the **pool asset** prescribed by the **ISO**.

**(5)** A **pool participant** must ensure that its **pool asset** continues to meet the requirements set out in subsection 6(3) for as long as the **directive** to provide **supplemental reserve** is in effect.

**(6)** A **pool participant** must ensure that its **pool asset** is in the position set out in subsection 5(1) as soon as possible or, in any event, not more than fifteen (15) minutes after receiving a cancellation of the **directive** for **supplemental reserve**.

#### Measuring Response to a Directive

**7** A **pool participant** must ensure that each **pool asset** complies with the requirements set out in subsection 6 as measured at:

- (a) the stator winding terminals of the **generating unit**;
- (b) the circuit breaker or disconnection device that is electrically closest to each load;

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- (c) the alternating current terminal closest to each inverter based technology;
- (d) the **collector bus** for **aggregated generating facilities**; or
- (e) a point designated by the **ISO**.

#### Test Requirements

- 8** The **ISO** may request a **pool participant** to test a **supplemental reserve resource**:
- (a) prior to allowing the **supplemental reserve resource** to provide **supplemental reserve**;
  - (b) if the **ISO** provides evidence that the **supplemental reserve resource** exhibits behaviour that is inconsistent with the requirements of this Section 205.6; or
  - (c) if the **ISO** otherwise determines that such testing is necessary.

#### Maintaining Eligibility to Provide Supplemental Reserve

**9(1)** The **ISO** may issue a notice suspending the ability of a **pool participant** to provide **supplemental reserve** if the **pool participant** does not comply with:

- (a) 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**.

**(2)** A **pool participant** that has received a suspension notice pursuant to subsection 9(1) may 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

Date	Description
2018-02-01	Revised requirements to be technology agnostic.
2014-12-23	Initial release