

ISO Rules

Part 200 Markets

Division 205 Ancillary Services

Section 205.6 Supplemental Reserve Technical Requirements and Performance Standards



External Consultation~~Final~~ Draft
~~September 28, 2017~~

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) 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;
 - (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.
- (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.
- (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).

ISO Rules

Part 200 Markets

Division 205 Ancillary Services

Section 205.6 Supplemental Reserve Technical Requirements and Performance Standards



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 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**.

ISO Rules

Part 200 Markets

Division 205 Ancillary Services

Section 205.6 Supplemental Reserve Technical Requirements and Performance Standards



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;
- (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
yyyy-mm-dd	
2014-12-23	Initial release