

External Consultation Draft August 31, 2018

Applicability

- 1 Section 103.11 applies to:
 - (a) a capacity market participant; and
 - (b) the **ISO**.

Requirements

Provision of Financial Security

A capacity market participant must provide to the **ISO**, or cause its guarantor to provide to the **ISO**, any **financial security** which it is required to provide, or requested by the **ISO** to provide, pursuant to this section 103.11.

Financial Security - Payment Adjustment Balance Limit

3(1) The **ISO** may, if, at any time prior to or during an **obligation period**, the **ISO** is of the opinion that the payment adjustment balance, as determined in accordance with Section 103.9 of the **ISO rules**, *Capacity Market Financial Settlement*, in respect of any asset, may, at any time, exceed a limit calculated as follows:

PAB limit = the capacity payment, calculated in accordance with Section 103.10 of the **ISO rules**,

Capacity Payment Calculation for such **obligation period** * 12 *1.3

calculate an adjustment to the amount of **financial security** which the **capacity market participant** may be required to provide to the **ISO** in respect of such **obligation period** as follows:

adjusted security requirement = security requirement less the total amount of **financial security** currently held by the **ISO** in respect of such asset pursuant to this subsection 3(1)

where:

security requirement = the greater of:

- (i) the estimated payment adjustment balance less the PAB limit; and
- (ii) \$0.
- (2) The ISO may, if the amount of the adjusted security requirement determined pursuant to subsection 3(1) is a positive number, request the applicable capacity market participant to provide financial security to the ISO in the amount of the adjusted security requirement on or prior to the date specified in any notice to the capacity market participant from the ISO, which date shall in all events be not less than 5 business days following the delivery of such notice.

Financial Security - Change to Capacity Payment

4(1) The **ISO** may, if there is any estimated change in the amount of the capacity payment, calculated in accordance with Section 103.10 of the ISO rules, *Capacity Payment Calculation* for an asset for any **obligation period**, calculate and must calculate upon any request of the applicable **capacity market participant** an adjustment to the amount of **financial security** which the **capacity market participant** may be required to provide to the **ISO** in respect of such **obligation period** as follows:



adjusted security requirement = security requirement less the total amount of **financial security** currently held by the **ISO** in respect of such asset pursuant to this subsection 4(1)

where:

security requirement = the greater of:

- (i) the estimated payment adjustment balance less the PAB limit; and
- (ii) \$0; and

PAB limit = the capacity payment, calculated in accordance with Section 103.10 of the **ISO rules**, Capacity Payment Calculation for such **obligation period** (which shall be \$0 if such asset is not subject to a **capacity commitment** for such **obligation period**) * 12 * 1.3.

- (2) The ISO may, if the amount of the adjusted security requirement determined pursuant to subsection 4(1) is a positive number, request the applicable capacity market participant to provide financial security to the ISO in the amount of the adjusted security requirement on or prior to the date specified in any notice to the capacity market participant from the ISO, which date shall in all events be not less than 5 business days following the delivery of such notice.
- (3) The ISO may, if requested by the capacity market participant, if the amount of the adjusted security requirement determined pursuant to subsection 4(1) in respect of an **obligation period** is a negative number, reduce the amount of **financial security** of the **capacity market participant** as of the commencement of such **obligation period** by the adjusted security requirement.

Financial Security - New Capacity, Refurbished Capacity, and Incremental Capacity

- **5(1)** A **capacity market participant** must, prior to participating in a **base auction** or **rebalancing auction** and within the timelines prescribed in the *Capacity Market Auction Guidelines*, provide **financial security** to the **ISO** for the security requirement amounts determined pursuant to this subsection 5 and subsection 6, as applicable, in respect of an asset with:
 - (a) **new capacity**;
 - (b) refurbished capacity, or
 - (c) incremental capacity,

that is not energized and commissioned at the time of the base auction or rebalancing auction.

(2) The ISO must calculate the security requirement for the volume of uniform capacity value from an asset with new capacity that a capacity market participant must offer in a base auction or rebalancing auction as follows:

security requirement = (gross-CONE * 1 / CRF) * 5% * uniform capacity value

where gross-CONE is from the demand curve for the applicable **base auction** or **rebalancing auction** as established in accordance with Section 207.3 of the **ISO rules**, *Shape of Demand Curve*:

CRF is the capital recovery factor specified in subsection 5(3); and

uniform capacity value is the volume of uniform capacity value the capacity market participant must offer for the applicable base auction or rebalancing auction.

(3) The ISO must calculate the capital recovery factor as:

$$CRF = \{i(1 + i)^n\} / \{[(1 + i)^n] - 1\}$$



where i is the discount rate used in the gross-CONE determination as per Section 207.3 of the **ISO rules**, *Shape of Demand Curve*; and

n is a 20 year plant life.

(4) The ISO must calculate the security requirement for the volume of uniform capacity value from an asset with refurbished capacity that a capacity market participant must offer in a base auction or rebalancing auction as follows:

security requirement = unit rate * escalation rate * 5% * uniform capacity value where the unit rate is \$200/kW;

escalation rate is the current capital cost escalation rate as determined by the ISO; and

uniform capacity value is the volume of uniform capacity value the capacity market participant must offer for the applicable base auction or rebalancing auction.

(5) The ISO must calculate the security requirement for the volume of uniform capacity value from incremental capacity that a capacity market participant must offer in a base auction or rebalancing auction as follows:

security requirement = unit rate * escalation rate * 5% * uniform capacity value where the unit rate is \$100/kW:

escalation rate is the current capital cost escalation rate as determined by the ISO; and

uniform capacity value is the volume of uniform capacity value from incremental capacity the capacity market participant must offer for the applicable base auction or rebalancing auction.

Financial Security - Revised Amounts

- **6(1)** The **ISO** must, following a **base auction** or a **rebalancing auction**, determine the security requirement of an asset identified in subsection 5(1) as follows:
 - (a) \$0, if the capacity market participant elected to delist the entire volume of new capacity or refurbished capacity for the asset in accordance with Section 206.1 of the ISO rules, Qualification of Capacity;
 - (b) \$0, if the **capacity market participant** elected to not continue with the retrofit for incremental **capacity** for the asset in accordance with Section 206.1 of the **ISO rules**, Qualification of Capacity;
 - (c) \$0, if the capacity market participant failed to receive a capacity commitment for that asset for the applicable obligation period;
 - (d) \$0, if such **rebalancing auction** is the last **rebalancing auction** for the applicable **obligation period** and that asset achieved energization and **commissioning**;
 - (e) the amount determined in accordance to subsection 5, if the **capacity market participant** received a **capacity commitment** for that asset for the applicable **obligation period**; or
 - (f) the amount determined in accordance with subsection 6(2), if applicable.
- (2) The **ISO** must, if an asset was determined to meet its critical milestones as per Section 206.5 of the **ISO** rules, *Forward Period Milestone Assessment* in advance of a **rebalancing auction**, calculate the security requirement for the **capacity commitment** which was the outcome of an **offer** of **new capacity**,



refurbished capacity or incremental capacity that cleared a prior base auction or rebalancing auction for the applicable obligation period, as follows:

security requirement = security rate * capacity commitment * max{remaining auctions, 1} / total applicable auctions

where:

security rate is calculated as per subsection 6(3), as applicable;

capacity commitment is the capacity commitment of the asset for the obligation period in respect of such rebalancing auction;

total applicable auctions is the count of all **base auctions** and **rebalancing auctions**, regardless of the respective **obligation period**, from the **base auction** or **rebalancing auction** which the initial security requirement was provided pursuant to subsection 5, to the start of the **obligation period** which the initial security requirement was provided in respect of; and

remaining auctions is the count of all **base auctions** and **rebalancing auctions**, regardless of the respective **obligation period**, from this **rebalancing auction** which the reduced security requirement is being calculated and provided for, to the start of the **obligation period** which the reduced security requirement is being calculated and provided in respect of.

- (3) The ISO must calculate the security rate as follows:
 - (a) for an asset with a capacity commitment based on new capacity:

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security rate = (gross-CONE * 1 / CRF) * 5%
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where gross-CONE is from the demand curve for the applicable base auction or rebalancing auction as established in accordance with Section 207.3 of the **ISO rules**, *Shape of Demand Curve*: and

CRF is the capital recovery factor specified in subsection 5(3);

(b) for an asset with a **capacity commitment** based on refurbished **capacity**:

security rate = unit rate * escalation rate * 5%

where the unit rate is \$200/kW; and

escalation rate is the current capital cost escalation rate as determined by the ISO; or

(c) for an asset with a capacity commitment based on incremental capacity:

security rate = unit rate * escalation rate * 5%

where the unit rate is \$100/kW; and

escalation rate is the current capital cost escalation rate as determined by the ISO.

(4) The ISO may, following a rebalancing auction, adjust the amount of financial security a capacity market participant must provide to the ISO for an asset in accordance with the amount determined in subsection 6.

Revision History



Date	Description
yyyy-mm-dd	Initial release