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External Consultation Draft

February 7, 2019

Applicability

1 Section 505.2 applies to:

(a) the **ISO**.

Requirements

Performance Assessment

2(1) The **ISO** must use the performance criteria in this section 505.2, in accordance with section 29(5) of the *Transmission Regulation*, to assess the satisfactory performance of a ~~generation facility, being a~~ **generating unit** or an **aggregated generating facility**, for which ~~a~~an **electricity market participant**:

(a) has paid to the **ISO** a **legal owner**'s contribution for the ~~generation~~**generating unit** or **aggregated generating facility** in accordance with subsection 4 of section 10 of the **ISO tariff**; and

(b) may receive a refund of that contribution in accordance with subsection 5 of section 10 of the **ISO tariff**.

(2) The **ISO** must calculate the performance assessment for the 2015 calendar year and each subsequent calendar year as:

(a) the availability assessment calculated in accordance with subsection 3, 4 or 5 below, as applicable,

~~—~~multiplied by

(b) the overcontract assessment calculated in accordance with subsection 6 below.

(3) The **ISO** must calculate refund for each calendar year during the refund period as:

$$\text{refund} = \text{annual amount} \times \text{performance assessment},$$

where the annual amount is as specified in subsection 5(3) of section 10 of the **ISO tariff**, and the performance assessment is calculated in accordance with subsection 2(2) of this section 505.2.

Availability Assessment for Generation Other Than Hydro, Wind, ~~Hydro~~Solar, Less Than 5 MW and Behind-the-Fence

3(1) The **ISO** must calculate the availability assessment in accordance with this subsection 3 for a ~~generation~~**generating unit** or an **aggregated generating facility** that:

(a) is not a hydro **generating unit**, or a wind ~~generation~~or solar **aggregated generating facility**;

(b) has a **maximum capability** of 5 MW or greater; and

(c) is not a ~~generation~~**generating unit** or an **aggregated generating facility** that is behind-the-fence and primarily intended to fully or partially serve onsite industrial load.

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(2) The **ISO** must calculate the availability assessment individually for each ~~generation~~**generating unit** or **aggregated generating** **facility** to which this subsection 3 applies.

(3) The **ISO** must calculate the average hourly availability for each ~~generation~~**generating unit** or **aggregated generating** **facility**, where:

(a) hourly availability (time weighted) = $\frac{\textbf{available capability}}{\textbf{maximum capability}}$; and

(b) average hourly availability = $\frac{\sum \text{hourly availability for all hours of the year}}{\text{number of hours in the year}}$

(4) The **ISO** must calculate the availability assessment for each ~~generation~~**generating unit** or **aggregated generating** **facility**, based on the average hourly availability as follows:

Average Hourly Availability	Availability Assessment
Less than 0.60	0%
0.60 to 0.80	~~$\frac{\text{average hourly availability} - 0.60}{0.20} \times 100\%$~~ $\frac{\text{average hourly availability} - 0.60}{0.20} \times 100\%$
Greater than 0.80	100%

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Availability Assessment for Generation Using ~~Wind or~~ Hydro, Wind, Solar or Less Than 5 MW

4(1) The **ISO** must calculate the availability assessment in accordance with this subsection 4 for a ~~generation~~**generating unit** or an **aggregated generating** **facility** that:

(a) is a hydro ~~or~~**generating unit**;

(b) is a wind ~~generation~~or solar **aggregated generating** **facility**; or

(~~b~~)c) has a **maximum capability** of less than 5 MW.

(2) The **ISO** must:

(a) calculate the availability assessment in aggregate for all ~~generation~~**generating units** and **aggregated generating** **facilities** that are served under a single Rate STS **system access service** agreement; and

(b) apply the aggregate availability assessment to each ~~generation~~**generating unit** or **aggregated generating** **facility** to which this subsection 4 applies.

(3) The **ISO** must calculate the average hourly availability in aggregate for all ~~generation~~**generating units** and **aggregated generating** **facilities** that are served under a single Rate STS **system access service** agreement, over all hours in the period during which performance is being assessed, where:

(a) for an hour during a month in which Rate STS **contract capacity** is greater than zero (0):

$$\text{hourly availability (time weighted)} = \frac{\textbf{metered energy+dispatch volume of operating reserves}}{\text{Rate STS } \textbf{contract capacity}};$$

(b) for an hour during a month in which Rate STS **contract capacity** is zero (0):

hourly availability = 1.00 ; and

(c) average hourly availability $= \frac{\sum \text{hourly availability for all hours of the year}}{\text{number of hours in the year}}$

(4) The **ISO** must calculate the availability assessment in aggregate for all ~~generation~~**generating units** and **aggregated generating facilities**, excluding solar **aggregated generating facilities**, that are served under a single Rate STS **system access service** agreement, based on the average hourly availability as follows:

Average Hourly Availability	Availability Assessment
Less than 0.15	0%
0.15 to 0.25	~~$\frac{\text{average hourly availability} - 0.15}{0.10} \times 100\%$~~ $\frac{\text{average hourly availability} - 0.15}{0.10} \times 100\%$
Greater than 0.25	100%

(5) The **ISO** must calculate the availability assessment in aggregate for all solar **aggregated generating facilities** that are served under a single Rate STS **system access service** agreement, based on the average hourly availability as follows:

Average Hourly Availability	Availability Assessment
Less than 0.085	0%
0.085 to 0.120	$\frac{\text{average hourly availability} - 0.05}{0.10}$ x 100% $\frac{\text{average hourly availability} - 0.8}{0.04}$ x 100%
Greater than 0.120	100%

Availability Assessment for Behind-the-Fence Generation

5(1) The **ISO** must calculate the availability assessment in accordance with this subsection 5 for a generation**generating unit** or **aggregated generating** **facility** that is behind-the-fence and primarily intended to fully or partially serve onsite industrial load.

(2) The **ISO** must:

(a) calculate the availability assessment in aggregate for all generation**generating units** and **aggregated generating** **facilities** that are served under a single Rate STS **system access service** agreement; and

(b) apply the aggregate availability assessment to each generation**generating unit** or **aggregated generating** **facility** to which this subsection 5 applies.

(3) The **ISO** must calculate the average hourly availability in aggregate for all generation**generating units** and **aggregated generating** **facilities** that are served under a single Rate STS **system access service** agreement, over all hours in the period during which performance is being assessed, where:

(a) if the generation**generating unit** or **aggregated generating** **facility** submits **offers** on a net basis:

(i) for an hour during a month in which Rate STS **contract capacity** is greater than zero (0):

$$\text{hourly availability (time weighted)} = \frac{\text{total available capacity}}{\text{Rate STS contract capacity}}; \text{ and}$$

(ii) for an hour during a month in which Rate STS **contract capacity** is zero (0):

hourly availability = 1.00 ;

(b) if the generation**generating unit** or **aggregated generating** **facility** submits **offers** on a gross basis:

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$$\text{hourly availability (time weighted)} = \frac{\textbf{available capability}}{\textbf{maximum capability}}; \text{and}$$

(c) average hourly availability $= \frac{\sum \text{hourly availability for all hours of the year}}{\text{number of hours in the year}}$

(4) The **ISO** must calculate the availability assessment in aggregate for all ~~generation~~**generating units** and **aggregated generating** **facilities** that are served under a single Rate STS **system access service** agreement, based on the average hourly availability as follows:

Average Hourly Availability	Availability Assessment
Less than 0.60	0%
0.60 to 0.80	~~$\frac{\text{average hourly availability} - 0.60}{0.20} \times 100\%$~~ $\frac{\text{average hourly availability} - 0.60}{0.20} \times 100\%$
Greater than 0.80	100%

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Overcontract Assessment

6(1) The **ISO** must, for a ~~generation~~**generating unit** or an **aggregated generating** **facility** to which this section 505.2 applies:

(a) calculate the overcontract assessment in aggregate for all ~~generation~~**generating units** and **aggregated generating** **facilities** that are served under a single Rate STS **system access service** agreement; and

(b) apply the aggregate overcontract assessment to each ~~generation~~**generating unit** or **aggregated generating** **facility** that is served under that Rate STS **system access service** agreement.

(2) The **ISO** must calculate the overcontract factor in aggregate for all ~~generation~~**generating units** and **aggregated generating** **facilities** that are served under a single Rate STS **system access service** agreement, based on the **metered energy** supplied above Rate STS **contract capacity**, over all hours in the period during which performance is being assessed, as follows:

$$\text{overcontract factor} = \frac{\sum_{\text{hours when } \textbf{metered energy} > \text{Rate STS } \textbf{contract capacity}} (\textbf{metered energy} - \text{Rate STS } \textbf{contract capacity})}{\sum_{\text{all hours}} \text{Rate STS } \textbf{contract capacity}}$$

(3) The **ISO** must, in any month in which Rate STS **contract capacity** is less than 5 MW, deem Rate STS **contract capacity** to be 5 MW during that month for the calculation of the overcontract factor in subsection 6(2) above.

(4) The **ISO** must exclude from the calculation of the overcontract factor in subsection 6(2) above any hours in which the **ISO** issues a **directive** to the **legal owner** of a ~~generation~~**generating unit** or

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aggregated generating **facility** to temporarily exceed the Rate STS **contract capacity** during an **emergency**.

(5) The **ISO** must calculate the overcontract assessment in aggregate for all ~~generation~~**generating units** and **aggregated generating facilities** that are served under a single Rate STS **system access service** agreement, based on the overcontract factor calculated in subsection 6(2) above as follows:

Overcontract Factor	Overcontract Assessment
Less than 0.01	100%
0.01 to 0.05	~~$\frac{0.05 - \text{overcontract factor}}{0.04} \times 100\%$~~ $\frac{0.05 - \text{overcontract factor}}{0.04} \times 100\%$
Greater than 0.05	0%

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Adjustments

7 The **ISO** may make adjustments to the hourly availability and/or the overcontract factor where the hourly availability and/or the overcontract factor are affected by events outside the control of the **owner** of a ~~generation~~**generating unit** or **aggregated generating facility**, including but not limited to a transmission and/or distribution facility outage, congestion, a **directive** issued by the **ISO** or a circumstance arising under the **ISO tariff** or an **ISO rule**.

Communication

8 The **ISO** must provide a preliminary performance assessment, along with all related input data, to the **legal owner** of a ~~generation~~**generating unit** or an **aggregated generating facility** by January 31 of the year following the calendar year to which the refund relates.

Revision History

~~Date Description~~

~~2016-01-29 Initial release.~~

Date	Description
XXXX-XX-XX	Revisions to clarify "**market participant**" as "**electricity market participant**"; "generating facility" as "generating unit or aggregated generating facility"; and applicability to a solar aggregated generating facility.
2016-01-29	Initial release.