

## Attachment II

## **26.4 Operating Requirement and Bidding Requirement**

### **26.4.1 Purpose and Function**

The Operating Requirement is a measure of a Customer's expected financial obligations to the ISO based on the nature and extent of that Customer's participation in ISO-Administered Markets. A Customer shall be required to allocate Unsecured Credit, where allowed, and/or provide collateral in an amount equal to or greater than its Operating Requirement. Upon a Customer's written request, the ISO will provide a written explanation for any changes in the Customer's Operating Requirement.

The Bidding Requirement is a measure of a Customer's potential financial obligation to the ISO based upon the bids that Customer seeks to submit in an ISO-administered TCC or ICAP auction. A Customer shall be required to allocate Unsecured Credit, where allowed, and/or provide collateral in an amount equal to or greater than its Bidding Requirement prior to submitting bids in an ISO-administered TCC or ICAP auction.

### **26.4.2 Calculation of Operating Requirement**

The Operating Requirement shall be equal to the sum of (i) the Energy and Ancillary Services Component; (ii) the External Transaction Component; (iii) the UCAP Component; (iv) the TCC Component; (v) the WTSC Component; (vi) the Virtual Transaction Component; (vii) the DADRP Component; (viii) the DSASP Component ; and (ix) the Projected True-Up Exposure Component, where:

#### **26.4.2.1 Energy and Ancillary Services Component**

The Energy and Ancillary Services Component shall be equal to:

- (a) For Customers without a prepayment agreement, the greater of either:

$$\frac{\text{Basis Amount for Energy and Ancillary Services}}{\text{Days in Basis Month}} * 16$$

- or -

$$\frac{\text{Total Charges Incurred for Energy and Ancillary Services for Previous Ten (10)Days}}{10} * 16$$

- (b) For Customers that qualify for a prepayment agreement, subject to the ISO's credit analysis and approval, and execute a prepayment agreement in the form provided in Appendix K-1, the greater of either:

$$\frac{\text{Basis Amount for Energy and Ancillary Services}}{\text{Days in Basis Month}} * 3$$

-or-

$$\frac{\text{Total Charges Incurred for Energy and Ancillary Services for Previous Ten (10)Days}}{10} * 3$$

- (c) For new Customers, the ISO shall determine a substitute for the Basis Amount for Energy and Ancillary Services for use in the appropriate formula above equal to:

$$EPL * 720 * AEP$$

where:

- EPL = estimated peak Load for the Capability Period; and  
 AEP = average Energy and Ancillary Services price during the Prior Equivalent Capability Period after applying the Price Adjustment.

#### **26.4.2.2 External Transaction Component**

The External Transaction Component shall equal the sum of the Customer's (i) Import Credit Requirement, (ii) Export Credit Requirement, (iii) Wheels Through Credit Requirement,

and (iv) the net amount owed to the ISO for the settled External Transaction Component Transactions.

#### **26.4.2.2.1 Import Credit Requirement**

For a given month, the Import Credit Requirement shall apply to any Customer that Bids to Import in the Day-Ahead Market (“DAM”) unless (i) the Customer has at least 50 scheduled Day-Ahead Import Bids in the three-month period ending on the 15<sup>th</sup> day of the preceding month (or the six-month period ending on the 15<sup>th</sup> day of the preceding month if the Customer has fewer than 50 scheduled Day-Ahead Import Bids in the immediately preceding three-month period), and (ii) fewer than 25% of the MWhs of such scheduled Day-Ahead Import Bids were settled at a loss to the Customer.

The Import Credit Requirement shall equal the sum of the amounts calculated for each Bid in accordance with the appropriate formulas below:

- (1) Upon submission of a DAM Import Bid until posting of the applicable DAM schedule/price.**

The ISO will calculate the required credit support for pending DAM Import Bids for a market day three days prior to the DAM close for that market day. The ISO will calculate the required credit support for DAM Import Bids that are submitted after the commencement of the initial credit evaluation upon Bid submission. The

ISO will categorize each Import Bid into one of the 18 Import Price Differential (IPD) groups set forth in the IPD chart in Section 26.4.2.2.5 below, as

appropriate, based upon the season and time-of-day of the Import Bid. The

amount of credit support required in \$/MWh that applies to an Import Bid shall

equal the 97<sup>th</sup> percentile level of the following: the hourly average Energy price

calculated in the Real-Time Market at the location associated with the Import Bid, minus the Energy price calculated in the DAM at the same location and time, with the dataset used to perform this calculation consisting of all hours that are in the same IPD group as the hour to which the Import Bid applies, and that occurred no earlier than April 1, 2005 nor later than the end of the calendar month preceding the month to which the Import Bid applies. The amount of credit support required in \$/MWh shall not be less than \$0/MWh.

The credit requirement for each Import Bid shall be calculated as follows:

$$Bid_{MWhB} * Max (IPD_{CS}, 0)$$

Where:

- $Bid_{MWhB}$  = the total quantity of MWhs that a Customer Bids to Import in a particular hour and at a particular location.
- $IPD_{CS}$  = the amount of credit support required, in \$/MWh, for an Import Bid as described above, for the location associated with the Import Bid and for the IPD group that contains the hour to which the Import Bid applies.

**(2) Upon posting of the applicable DAM schedule/price until completion of the hour Bid in real-time for a DAM Import Bid.**

The credit requirement for each Import Bid shall be calculated as follows:

$$SchBid_{MWhI} * Max(IPD_{CS}, 0)$$

Where:

- $SchBid_{MWhI}$  = the total quantity of MWhs that is scheduled in the DAM in a particular hour and at a particular location as a result of the Customer's Import Bid.
- $IPD_{CS}$  = the amount of credit support required, in \$/MWh, for an Import Bid as described above, for the location associated with the Import Bid and for the IPD group that contains the hour to which the Import Bid applies.

- (3) **Upon completion of the hour Bid in real-time for a DAM Import Bid until the net amount owed to the ISO is determined for settled External Transactions.**

The credit requirement for each Import Bid shall be calculated as follows:

$$\text{Max}((\text{BalPay}_{\$} - \text{DAMPay}_{\$}), 0)$$

Where:

$\text{BalPay}_{\$} = (\text{SchBid}_{\text{MWhI}} - \text{Actual}_{\text{MWhI}}) * \text{RT LBMP}_{\text{I}}$

$\text{DAMPay}_{\$} = \text{SchBid}_{\text{MWhI}} * \text{DAM LBMP}_{\text{I}}$

$\text{SchBid}_{\text{MWhI}}$  = the total quantity of MWhs that is scheduled in the DAM in a particular hour at a particular location as a result of the Customer's Import Bid.

$\text{Actual}_{\text{MWhI}}$  = the total quantity of MWhs that is scheduled in real-time associated with the Customer's Import Bid in a particular hour and at a particular location for the hour completed.

$\text{DAM LBMP}_{\text{I}}$  = the Day-Ahead LBMP in a particular hour and at a particular location associated with the Customer's Import Bid.

$\text{RT LBMP}_{\text{I}}$  = the Real-Time LBMP in a particular hour and at a particular location associated with the Customer's Import Bid.

#### **26.4.2.2.2 Export Credit Requirement**

The Export Credit Requirement shall apply to any Customer that Bids to Export from the DAM or Hour-Ahead Market ("HAM").

The Export Credit Requirement shall equal the sum of the amounts calculated for each Bid in accordance with the appropriate formulas below:

- (1) **Upon submission of a DAM Export Bid until posting of the applicable DAM schedule/price.**

[The ISO will calculate the required credit support for pending DAM Export Bids for a market day three days prior to the DAM market close for that market day.](#)

[The ISO will calculate the required credit support for DAM Export Bids that are submitted after the commencement of the initial credit evaluation upon Bid](#)

submission. The ISO will categorize each Export Bid into one of the 18 Export Price Differential (EPD) groups set forth in the EPD chart in Section 26.4.2.2.5 below, as appropriate, based upon the season and time-of-day of the Export Bid. The amount of credit support required in \$/MWh that applies to an Export Bid shall equal the 97<sup>th</sup> percentile level of the following: the Energy price calculated in the DAM at the location associated with the Export Bid, minus the hourly average Energy price calculated in the Real-Time Market at the same location and time, with the dataset used to perform this calculation consisting of all hours that are in the same EPD group as the hour to which the Export Bid applies, and that occurred no earlier than April 1, 2005 nor later than the end of the calendar month preceding the month to which the Export Bid applies. The amount of credit support required in \$/MWh shall not be less than \$0/MWh.

The credit requirement for all DAM Export Bids with the same hour/date and location shall be calculated as follows:

$$\left( \text{Max} \left( \left( \text{Max}_N (\text{Bid}_{MWh} * \text{Bid}_{\$E}) \right), (\text{BidMax}_{MWhB} * \text{EPD}_{CS}) \right) \right)$$

Where:

- $\text{Bid}_{MWh}$  = the total quantity of MWhs that a Customer Bids to Export in the DAM in a particular hour and at a particular location at or below each Bid Price.
- $\text{Bid}_{\$E}$  = the Bid Price in \$/MWh at which the Customer Bids to purchase the  $\text{Bid}_{MWh}$  of Exports in a particular hour and at a particular location.
- $N$  = the set of hourly Export Bid Prices in a particular hour and at a particular location.
- $\text{BidMax}_{MWhB}$  = the total quantity of MWhs that a Customer Bids to Export in the DAM in a particular hour and at a particular location.
- $\text{EPD}_{CS}$  = the amount of credit support required, in \$/MWh, for an Export Bid as described above, for the location associated with the Export Bid and

for the EPD group that contains the hour to which the Export Bid applies.

**(2) Upon posting of the applicable DAM schedule/price until completion of hour Bid in real-time for a DAM Export Bid.**

The credit requirement for each Export Bid shall be calculated as follows:

$$\left( SchBid_{MWhE} * \left( Max(EPD_{CS}, DAM LBMP_E) \right) \right)$$

Where:

SchBid<sub>MWhE</sub> = the total quantity of MWhs that is scheduled in the DAM in a particular hour at a particular location as a result of the Customer's Export Bid.

EPD<sub>CS</sub> = the amount of credit support required, in \$/MWh, for an Export Bid as described above, for the location associated with the Export Bid and for the EPD group that contains the hour to which the Export Bid applies.

DAM LBMP<sub>E</sub> = the Day-Ahead LBMP in a particular hour and at a particular location associated with the Customer's Export Bid.

**(3) From submission of a HAM Export Bid until completion of the hour Bid in real-time.**

**i. ~~For non-CTS Interface Bids~~ ~~HAM Bids to Export~~ ~~credit support will be calculated upon submission.~~**

The ISO will calculate the required credit support for pending HAM non-CTS Interface Bids to Export for a market day three days prior to the DAM close for that market day. The ISO will calculate the required credit support for HAM non-CTS Interface Bids to Export that are submitted after the commencement of the initial credit evaluation upon Bid submission. The amount of credit support required in \$/MWh that applies to HAM non-CTS Interface Bids to Export ~~Bids~~ in the same hour/date and at the same location shall equal the maximum amount of the payment potentially due to the ISO based on the MWhs of Exports Bid for purchase at each bid price in a particular hour and at a particular location.

The credit requirement for all HAM [non-CTS Interface Bids to Export](#) ~~Bids~~ with the same hour/date and location shall be calculated as follows:

$$\left( \text{Max}_N \left( \left( \text{Max}( \text{Bid}_{\text{MWhE}}, 0 \right) * \text{Bid}_{\text{\$E}} \right) \right)$$

Where:

- $\text{Bid}_{\text{MWhE}}$  = the total quantity of MWhs that a Customer Bids to Export in the HAM in a particular hour and at a particular location at or below each bid price minus the MWhs of Exports scheduled in the DAM in the same hour at the same location.
- $\text{Bid}_{\text{\$E}}$  = the bid price in \\$/MWh at which the Customer Bids to purchase the  $\text{Bid}_{\text{MWhE}}$  of Exports in a particular hour and at a particular location.
- $N$  = the set of hourly Export bid prices in a particular hour and at a particular location.

- ii. ~~For CTS Interface Bids to Export credit support will be calculated at HAM market close.~~

[For CTS Interface Bids to Export credit support will be calculated at HAM close.](#)

The amount of credit support required in \\$/MWh that applies to such bid shall equal the sum of the time-weighted hourly RTC price for each of the 15-minute intervals within the bid hour, not to be less than zero.

The credit requirement for each CTS Interface Bid to Export shall be calculated as follows:

$$\text{Max} \left( \sum_N \left( \text{RTC}_{\text{\$/MWhcts}} * \text{Bid}_{\text{MWhscts}} * \text{Hourly Weight} \right), 0 \right)$$

Where:

- $N$  = each 15-minute interval within the bid hour.
- $\text{RTC}_{\text{\$/MWhcts}}$  = most recently available RTC price for  $N$  in \\$/MWh at the location associated with the CTS Interface Bid to Export
- $\text{Bid}_{\text{MWhscts}}$  = the total quantity of MWhs in a Customer's CTS Interface Bid to Export for  $N$  in a particular hour and at a particular location minus the

MWhs of Exports scheduled in the DAM in same hour at the same location.

Hourly Weight = 0.25

**(4) Upon completion of the hour Bid in real-time for an Export Bid until the net amount owed to the ISO is determined for settled External Transactions.**

The amount of credit support required will equal the sum of the Day-Ahead Credit Calculation and Real-Time Credit Calculation for each completed hour.

The credit requirement for each Export Bid shall be calculated as follows:

Day-Ahead Credit Calculation + Real-Time Credit Calculation

The Day-Ahead Credit Calculation only applies to DAM Export Bids and the Real-Time Credit Calculation applies to all HAM Export Bids including HAM Bids associated with a DAM Bid.

Where:

Day-Ahead Credit Calculation = Max (Adjusted Export Day-Ahead Credit Calculation, 0)

Adjusted Export Day-Ahead Credit Calculation = the credit requirement calculated in accordance with section 26.4.2.2.2(2) minus the Balancing Payment.

*Balancing Payment = Max((SchBid<sub>MWhE</sub> - Actual<sub>MWhE</sub>), 0) \* RT LBMP<sub>E</sub>*

SchBid<sub>MWhE</sub> = the total quantity of MWhs that is scheduled in the DAM in a particular hour and at a particular location as a result of the Customer's Export Bid.

Actual<sub>MWhE</sub> = the total quantity of MWhs that is scheduled in real-time associated with the Customer's Export Bid in a particular hour and at a particular location for the hour completed.

RT LBMP<sub>E</sub> = the Real-Time LBMP in a particular hour and at a particular location associated with the Customer's Export Bid.

*Real-Time Credit Calculation = Max((Max((Actual<sub>MWhE</sub> - SchBid<sub>MWhE</sub>), 0) \* RT LBMP<sub>E</sub>), 0)*

Actual<sub>MWhE</sub> = the total quantity of MWhs that is scheduled in real-time associated with the Customer's Export Bid in a particular hour and at a particular location for the hour completed.

SchBid<sub>MWhE</sub> = the total quantity of MWhs that is scheduled in the DAM in a particular hour and at a particular location as a result of the Customer's Export Bid.

RT LBMP<sub>E</sub> = the Real-Time LBMP in a particular hour and at a particular location associated with the Customer's Export Bid.

#### 26.4.2.2.3 Wheels Through Credit Requirement

The Wheels Through Credit Requirement shall apply to any Customer that Bids to Wheel Through in the DAM or HAM.

The Wheels Through Credit Requirement shall equal the sum of the amounts calculated for each Bid in accordance with the appropriate formulas below:

- (1) **Upon submission of a DAM Wheels Through Bid until posting of the applicable DAM schedule/price.**

The ISO will calculate the required credit support for pending DAM Wheels Through Bids for a market day three days prior to the DAM close for that market day. The ISO will calculate the required credit support for DAM Wheels Through Bids that are submitted after the commencement of the initial credit evaluation upon Bid submission. The amount of credit support required in \$/MWh that

applies to the DAM Wheels Through Bid shall equal the maximum payment potentially due to the ISO based on the Customer's Bid Prices on the Bid curve.

The credit requirement for each Wheels Through Bid shall be calculated as follows:

$$\text{Max}(\text{Max}_N(\text{BidPt}_{MWhN} * \text{Bid}\$/MWhN), 0)$$

Where:

N = each Bid Price on the Bid curve.

BidPt<sub>MWhN</sub> = the MWhs associated with the Bid Price on the Bid curve.

$Bid_{\$/MWhN}$  = the amount that the customer is willing to pay for congestion in \$/MWh on the Bid curve associated with the Customer's Wheels Through Bid.

**(2) Upon posting of the applicable Wheels Through DAM schedule/price until completion of the hour Bid in real-time.**

The credit requirement for each DAM Wheels Through Bid shall be calculated as follows:

$$\text{Max}(\text{SchBid}_{MWhW} * (\text{DAM LBMP}_{POW} - \text{DAM LBMP}_{POI}), 0)$$

Where:

$\text{SchBid}_{MWhW}$  = the total quantity of MWhs scheduled in the DAM as a result of the Customer's Bid to schedule Wheels Through.

$\text{DAM LBMP}_{POI}$  = the Day-Ahead LBMP in the hour and at the Point of Injection associated with the Wheels Through Bid.

$\text{DAM LBMP}_{POW}$  = the Day-Ahead LBMP in the hour and at the Point of Withdrawal associated with the Wheels Through Bid.

**(3) Upon creation of a HAM Wheels Through Bid until the completion of the hour Bid in real-time.**

The ISO will calculate the required credit support for pending HAM Wheels Through Bids for a market day three days prior to the DAM close for that market day. The ISO will calculate the required credit support for HAM Wheels Through Bids that are submitted after the commencement of the initial credit evaluation upon Bid submission. The amount of credit support required in \$/MWh that applies to HAM Wheels Through Bid shall equal the price of the maximum value of exposure based on bid prices on the Bid curve.

The credit requirement for each Wheels Through Bid shall be calculated as follows:

$$\text{Max}(\text{Max}_N(\text{Max}(\text{BidPt}_{MWhW}, 0) * \text{Bid}_{\$/MWhN}), 0)$$

Where:

$N$  = each bid price on the Bid curve.

$BidPt_{MWhW}$  = the MWhs associated with the bid price on the Bid curve minus the MWhs of the DAM Bid with same hour/date, location and Bid transaction ID.

$Bid\$/MWhN$  = the amount that the customer is willing to pay for congestion in \$/MWh on the Bid curve associated with the Customer's Wheels Through Bid.

**(4) Upon completion of the hour Bid in real-time for a Wheels Through Bid until the net amount owed to the ISO is determined for settled External Transactions.**

The amount of credit support required will equal the sum of the Day-Ahead Credit Calculation and Real-Time Credit Calculation for each completed hour.

The credit requirement for each Wheels Through Bid shall be calculated as follows:

Day-Ahead Credit Calculation + Real-Time Credit Calculation

The Day-Ahead Credit Calculation only applies to DAM Wheels Through Bids and the Real-Time Credit Calculation applies to all HAM Wheels Through Bids including HAM Bids associated with a DAM Bid.

Where:

Day-Ahead Credit Calculation =  $\text{Max}(\text{Adjusted Wheels Through Day-Ahead Credit Calculation}, 0)$

Adjusted Wheels Through Day-Ahead Credit Calculation = the credit requirement calculated in section 26.4.2.2.3(2) minus the Balancing Payment.

$$\text{Balancing Payment} = \text{Max}((\text{SchBid}_{MWhW} - \text{Actual}_{MWhW}), 0) * (\text{RT LBMP}_{POW} - \text{RT LBMP}_{POI})$$

$\text{SchBid}_{MWhW}$  = the total quantity of MWhs that is scheduled in the DAM as a result of the Customer's Wheels Through Bid.

$\text{Actual}_{MWhW}$  = the total quantity of MWhs that is scheduled in real-time associated with the Customer's Wheels Through Bid for the hour completed.

RT LBMP<sub>POI</sub> = the Real-Time LBMP in the hour and at the Point of Injection associated with the Wheels Through Bid.

RT LBMP<sub>POW</sub> = the Real-Time LBMP in the hour and at the Point of Withdrawal associated with the Wheels Through Bid.

$$Real-Time\ Credit\ Calculation = Max(Max((Actual_{MWhW} - SchBid_{MWhW}), 0) * (RT\ LBMP_{POW} - RT\ LBMP_{POI}), 0)$$

SchBid<sub>MWhW</sub> = the total quantity of MWhs that is scheduled in the DAM as a result of the Customer's Bid to Wheel Through Energy.

Actual<sub>MWhW</sub> = the total quantity of MWhs that is scheduled in real-time associated with the Customer's Wheels Through Bid for the hour completed.

RT LBMP<sub>POI</sub> = the Real-Time LBMP in the hour and at the Point of Injection associated with the Wheels Through Bid.

RT LBMP<sub>POW</sub> = the Real-Time LBMP in the hour and at the Point of Withdrawal associated with the Wheels Through Bid.

#### 26.4.2.2. 4 Calculation of Price Differentials

##### Import Price Differential (IPD) Groups

	For each Proxy Generator Bus
<b>Summer</b>	
HB07–10	IPD-1
HB11–14	IPD-2
HB15–18	IPD-3
HB19–22	IPD-4
Weekend/ Holiday (HB07–22)	IPD-5
Night (HB23–06)	IPD-6
<b>Winter</b>	
HB07–10	IPD-7
HB11–14	IPD-8
HB15–18	IPD-9
HB19–22	IPD-10
Weekend/ Holiday (HB07–22)	IPD-11
Night (HB23–06)	IPD-12
<b>Rest-of-Year</b>	
HB07–10	IPD-13
HB11–14	IPD-14
HB15–18	IPD-15
HB19–22	IPD-16
Weekend/ Holiday (HB07–22)	IPD-17
Night (HB23–06)	IPD-18

Where:

Summer	=	May, June, July, and August
Winter	=	December, January, and February
Rest-of-Year	=	March, April, September, October, and November
HB07–10	=	weekday hours beginning 07:00–10:00
HB11–14	=	weekday hours beginning 11:00–14:00
HB15–18	=	weekday hours beginning 15:00–18:00
HB19–22	=	weekday hours beginning 19:00– 22:00
Weekend/Holiday	=	weekend and holiday hours beginning 07:00–22:00
Night	=	all hours beginning 23:00– 06:00

### Export Price Differential (EPD) Groups

	For each Proxy Generator Bus
<b>Summer</b>	
HB07–10	EPD-1
HB11–14	EPD-2
HB15–18	EPD-3
HB19–22	EPD-4
Weekend/ Holiday (HB07–22)	EPD-5
Night (HB23–06)	EPD-6
<b>Winter</b>	
HB07–10	EPD-7
HB11–14	EPD-8
HB15–18	EPD-9
HB19–22	EPD-10
Weekend/ Holiday (HB07–22)	EPD-11
Night (HB23–06)	EPD-12
<b>Rest-of-Year</b>	
HB07–10	EPD-13
HB11–14	EPD-14
HB15–18	EPD-15
HB19–22	EPD-16
Weekend/ Holiday (HB07–22)	EPD-17
Night (HB23–06)	EPD-18

Where:

Summer	=	May, June, July, and August
Winter	=	December, January, and February

Rest-of-Year	=	March, April, September, October, and November
HB07–10	=	weekday hours beginning 07:00–10:00
HB11–14	=	weekday hours beginning 11:00–14:00
HB15–18	=	weekday hours beginning 15:00–18:00
HB19–22	=	weekday hours beginning 19:00– 22:00
Weekend/Holiday	=	weekend and holiday hours beginning 07:00–22:00
Night	=	all hours beginning 23:00– 06:00

### **26.4.2.3 UCAP Component**

The UCAP Component shall be equal to the total of all amounts then-owed (billed and unbilled) for UCAP purchased in the ISO-administered markets.

### **26.4.2.4 TCC Component**

The TCC Component shall be equal to the greater of either the amount calculated in accordance with Section 26.4.2.4.1 or Section 26.4.2.4.2 below.

#### **26.4.2.4.1 TCC Award Calculation**

The sum of the amounts calculated in accordance with the appropriate per TCC term-based formula listed below for TCC purchases less the amounts calculated in accordance with the appropriate per TCC term-based formula listed below for TCC sales; *provided however*, that upon initial award of a TCC until the ISO receives payment for the TCC (or payment for the first year of a two-year TCC), the NYISO will hold the greater of the payment obligation for the TCC or the credit requirement for the TCC calculated in accordance with this Section 26.4.2.4.1.

**26.4.2.4.1.1 Two-Year TCCs:**

- (1) upon initial award of a two-year TCC until completion of the final round of the current two-year Sub-Auction, the sum of the first year and second year amounts, which will be calculated as follows:

First Year:

the amount calculated in accordance with the one-year TCC formula set forth in Section 26.4.2.4.1.5 below

where:

$P_{ijt}$  = market clearing price of a one-year TCC in the final round of the one-year Sub-Auction in the prior Capability Period Centralized TCC Auction with the same POI and POW combination as the two-year TCC.

Second Year:

$$+1.909\sqrt{e^{10.9729 + .6514(\ln(|P_{ijt}| + e)) + .6633 * Zone J + 1.1607 * Zone K}}$$

where:

$P_{ijt}$  = market clearing price of that two-year TCC minus the market clearing price of a one-year TCC in the final round of the one-year Sub-Auction in the prior Capability Period Centralized TCC Auction with the same POI and POW combination as the two-year TCC

- (2) upon completion of the final round of the current two-year Sub-Auction until completion of the final round of the current one-year Sub-Auction, the sum of the first year and second year amounts, which will be calculated as follows:

First Year:

the amount calculated in accordance with the one-year TCC formula set forth in Section 26.4.2.4.1.5 below

where:

$P_{ijt}$  = market clearing price of a one-year TCC in the final round of the one-year Sub-Auction in the prior Capability Period Centralized TCC

Auction with the same POI and POW combination as the two-year TCC

Second Year:

$$+1.909\sqrt{e^{10.9729 + .6514(\ln(|P_{ijt}| + e)) + .6633 * Zone J + 1.1607 * Zone K}}$$

where:

$P_{ijt}$  = market clearing price of a two-year TCC in the final round of the current two-year Sub-Auction with the same POI and POW combination as the two-year TCC minus the market clearing price of a one-year TCC in the final round of the one-year Sub-Auction in the prior Capability Period Centralized TCC Auction with the same POI and POW combination as the two-year TCC

(3) upon completion of the final round of the current one-year Sub-Auction until the ISO receives payment for the second year of the two-year TCC, the sum of the first year and second year amounts, which will be calculated as follows:

First Year:

the amount calculated in accordance with the one-year TCC formula set forth in Section 26.4.2.4.1.5 below

where:

$P_{ijt}$  = market clearing price of a one-year TCC in the final round of the current one-year Sub-Auction with the same POI and POW combination as the two-year TCC

Second Year:

$$+1.909\sqrt{e^{10.9729 + .6514(\ln(|P_{ijt}| + e)) + .6633 * Zone J + 1.1607 * Zone K}}$$

where:

$P_{ijt}$  = market clearing price of a two-year TCC in the final round of the current two-year Sub-Auction with the same POI and POW combination as the two-year TCC minus the market clearing price of a one-year TCC in the final round of the current one-year Sub-Auction with the same POI and POW combination as the two-year TCC

- (4) upon ISO receipt of payment for the second year of the two-year TCC until commencement of year two of the two-year TCC, the sum of the first year and second year amounts, which will be calculated as follows:

First Year:

the amount calculated in accordance with the one-year TCC formula set forth in Section 26.4.2.4.1.5 below

where:

$$P_{ijt} = \text{market clearing price of a one-year TCC in the final round of the one-year Sub-Auction in the prior equivalent Capability Period Centralized TCC Auction with the same POI and POW combination as the two-year TCC}$$

Second Year:

the amount calculated in accordance with the one-year TCC formula set forth in Section 26.4.2.4.1.5 below

where:

$$P_{ijt} = \text{market clearing price of a one-year TCC in the final round of the one-year Sub-Auction in the prior equivalent Capability Period Centralized TCC Auction with the same POI and POW combination as the two-year TCC}$$

- (5) upon commencement of year two of a two-year TCC until commencement of the final six months of the two-year TCC:

the amount calculated in accordance with the one-year TCC formula set forth in Section 26.4.2.4.1.5 below

where:

$$P_{ijt} = \text{market clearing price of a one-year TCC in the final round of the most recently completed one-year Sub-Auction with the same POI and POW combination as the two-year TCC}$$

- (6) upon commencement of the final six months of a two-year TCC until commencement of the final month of the two-year TCC:

the amount calculated in accordance with the six-month TCC formula set forth in Section 26.4.2.4.1.5 below

where:

$P_{ijt}$  = market clearing price of a six-month TCC in the final round of the most recently completed six-month Sub-Auction with the same POI and POW combination as the two-year TCC

(7) upon commencement of the final month of a two-year TCC:

the amount calculated in accordance with the one-month TCC formula set forth in Section 26.4.2.4.1.5 below

where:

$P_{ijt}$  = market clearing price of a one-month TCC in the most recently completed monthly reconfiguration auction with the same POI and POW combination as the two-year TCC

#### **26.4.2.4.1.2 One-Year TCCs:**

(1) upon initial award of a one-year TCC until completion of the final round of the current one-year Sub-Auction:

the amount calculated in accordance with the one-year TCC formula set forth in Section 26.4.2.4.1.5 below

(2) upon completion of the final round of the current one-year Sub-Auction until commencement of the final six months of the one-year TCC:

the amount calculated in accordance with the one-year TCC formula set forth in Section 26.4.2.4.1.5 below

where:

$P_{ijt}$  = market clearing price of a one-year TCC in the final round of the current one-year Sub-Auction with the same POI and POW combination as the one-year TCC

(3) upon commencement of the final six months of a one-year TCC until commencement of the final month of the one-year TCC:

the amount calculated in accordance with the six-month TCC formula set forth in Section 26.4.2.4.1.5 below

where:

$P_{ijt}$  = market clearing price of a six-month TCC in the final round of the most recently completed six-month Sub-Auction with the same POI and POW combination as the one-year TCC

(4) upon commencement of the final month of a one-year TCC:

the amount calculated in accordance with the one-month TCC formula set forth in Section 26.4.2.4.1.5 below

where:

$P_{ijt}$  = market clearing price of a one-month TCC in the most recently completed monthly reconfiguration auction with the same POI and POW combination as the one-year TCC

#### **26.4.2.4.1.3 Six-Month TCCs:**

(1) upon initial award of a six-month TCC until completion of the final round of the current six-month Sub-Auction:

the amount calculated in accordance with the six-month TCC formula set forth in Section 26.4.2.4.1.5 below

(2) upon completion of the final round of the current six-month Sub-Auction until commencement of the final month of a six-month TCC:

the amount calculated in accordance with the six-month TCC formula set forth in Section 26.4.2.4.1.5 below

where:

$P_{ijt}$  = market clearing price of a six-month TCC in the final round of the current six-month Sub-Auction with the same POI and POW combination as the one-year TCC

(3) upon commencement of the final month of a six-month TCC:

the amount calculated in accordance with the one-month TCC formula set forth in Section 26.4.2.4.1.5 below

where:

$P_{ijt}$  = market clearing price of a one-month TCC in the most recently completed monthly reconfiguration auction with the same POI and POW combination as the six-month TCC

**26.4.2.4.1.4 One-Month TCCs:**

upon initial award of a one-month TCC:

the amount calculated in accordance with the one-month TCC formula set forth in Section 26.4.2.4.1.5 below

**26.4.2.4.1.5 TCC formulas:**

**for one-year TCCs, representing a 5% probability curve:**

$$+1.909\sqrt{e^{10.9729 + .6514(\ln(|P_{ijt}| + e)) + .6633 * Zone J + 1.1607 * Zone K} - 1} P_{ijt}$$

**for six-month TCCs, representing a 3% probability curve:**

$$+2.565\sqrt{e^{11.6866 + .4749(\ln(|P_{ijt}| + e)) + .4856 * Zone J + .8498 * Zone K - .0373 Summer} - 1} P_{ijt}$$

**for one-month TCCs, representing a 3% probability curve:**

$$+2.221\sqrt{e^{11.2682 + .3221(\ln(|P_{ijt}| + e)) + 1.3734 * Zone J + 2.001 * Zone K + Month} - 1} P_{ijt}$$

where:

$P_{ijt}$  = market clearing price of i to j TCC in round t of the auction in which the TCC was purchased;

Zone J = 1 if TCC sources or sinks but not both in Zone J, zero otherwise;

Zone K = 1 if TCC sources or sinks but not both in Zone K and does not source or sink in Zone J, 0 otherwise;

Summer = 1 for six-month TCCs sold in the spring auction, 0 otherwise; and

Month = the following values:

January	=	0
February	=	-0.0201
March	=	0
April	=	0
May	=	0.8181
June	=	0.2835
July	=	0.5201
August	=	0.7221
September	=	0
October	=	0.32
November	=	-0.7681
December	=	0

Provided, however, for purposes of determining the credit holding requirement for a Fixed Price TCC, the market clearing price shall be replaced by the fixed price associated with that Fixed Price TCC, as determined in Section 19.2.1 or Section 19.2.2, of Attachment M as appropriate, of the OATT.

Further, when calculating “Pijt” in Section 26.4.2.4.1, in the event there is no market clearing price for a two-year, one-year, six-month, or one-month TCC in the appropriate prior Capability Period Centralized TCC Auction with the same POI and POW combination as the awarded two-year, one-year, six-month, or one-month TCC, as appropriate, then the market clearing price shall equal a proxy price, assigned by the ISO, for a TCC with like characteristics.

Further, the NYISO may adjust any of the Zone K multipliers in Section 26.4.2.4.1 if, for TCCs of the same duration, the percentage ratio between collateral and congestion rents for Zone K TCCs deviates from the percentage ratio for Zone J TCCs by more than ten percent (10.0%).

#### 26.4.2.4.2 Mark-to-Market Calculation

The projected amount of the Primary Holder's payment obligation to the NYISO, if any, considering the net mark-to-market value of all TCCs in the Primary Holder's portfolio, as defined for these purposes, according to the formula below:

$$\sum_{n \in N} \left\{ \frac{NAP_n}{90} * RD_n \right\} + \sum ACR_n$$

where:

- NAP = the net amount of Congestion Rents between the POI and POW composing each TCC<sub>n</sub> during the previous ninety days
- RD = the remaining number of days in the life of TCC<sub>n</sub>; *provided, however*, that in the case of Grandfathered TCCs, RD shall equal the remaining number of days in the life of the longest duration TCC sold in an ISO-administered auction then outstanding;
- N = the set of TCCs held by the Primary Holder; and
- ACR = the net amount owed to the ISO for Congestion Rents between the POI and POW composing each TCC<sub>n</sub>.

#### 26.4.2.5 WTSC Component

The WTSC Component shall be equal to the greater of either:

$$\frac{\text{Greatest Amount Owed for WTSC During Any Single Month in the Prior Equivalent Capability Period}}{\text{Days in Month}} * 50$$

- or -

$$\frac{\text{Total Charges Incurred for WTSC Based Upon the Most Recent Monthly Data Provided by the Transmission Owner}}{\text{Days in Month}} * 50$$

#### 26.4.2.6 Virtual Transaction Component

The Virtual Transaction Component shall be equal to the sum of the Customer's

(i) Virtual Supply credit requirement ("VSCR") for all outstanding Virtual Supply Bids, plus (ii) Virtual Load credit requirement ("VLCR") for all outstanding Virtual Load Bids, plus (iii) net amount owed to the ISO for settled Virtual Transactions.

Where:

$$VSCR = \sum(VSG_{MWh} * VSG_{CS})$$

$$VLCR = \sum(VLG_{MWh} * VLG_{CS})$$

Where:

$VSG_{MWh}$  = the total quantity of MWhs of Virtual Supply that a Customer Bids for all Virtual Supply positions in the Virtual Supply group

$VSG_{CS}$  = the amount of credit support required in \$/MWh for the Virtual Supply group

$VLG_{MWh}$  = the total quantity of MWhs of Virtual Load that a Customer Bids for all Virtual Load positions in the Virtual Load group

$VLG_{CS}$  = the amount of credit support required in \$/MWh for the Virtual Load group

The ISO will categorize each Virtual Supply Bid into one of the 72 Virtual Supply groups set forth in the Virtual Supply chart below, as appropriate, based upon the season, Load Zone, and time-of-day of the Virtual Supply Bid. The amount of credit support required in \$/MWh for a Virtual Transaction in a particular Virtual Supply group shall equal the price differential between the Energy price in the Day-Ahead Market and the Energy price in the Real-Time Market, at the 97<sup>th</sup> percentile, based upon all possible Virtual Supply positions in the Virtual Supply group for the period of time from April 1, 2005, through the end of the preceding calendar month.

The ISO will categorize each Virtual Load Bid into one of the 30 Virtual Load groups set forth in the Virtual Load chart below, as appropriate, based upon the season, Load Zone, and

time-of-day of the Virtual Load Bid. The amount of credit support required in \$/MWh for a Virtual Transaction in a particular Virtual Load group shall equal the price differential between the Energy price in the Day-Ahead Market and the Energy price in the Real-Time Market, at the 97<sup>th</sup> percentile, based upon all possible Virtual Load positions in the Virtual Load group for the period of time from April 1, 2005, through the end of the preceding calendar month.

If a Customer submits Bids for both Virtual Load and Virtual Supply for the same day, hour, and Load Zone, then for those Bids, until such time as those Bids have been evaluated by SCUC, only the greater of the Customer's (i) VLCR for the total MWhs Bid for Virtual Load, or (ii) VSCR for the total MWhs Bid for Virtual Supply will be included when calculating the Customer's Virtual Transaction Component. After evaluation of those Bids by SCUC, then only the credit requirement for the net position of the accepted Bids (in MWhs of Virtual Load or Virtual Supply) will be included when calculating the Customer's Virtual Transaction Component.

### Virtual Supply Groups

	<b>Load Zones A–F</b>	<b>Load Zones G–I</b>	<b>Load Zone J</b>	<b>Load Zone K</b>
<b>Summer</b>				
HB07–10	VSG-1	VSG-7	VSG-13	VSG-19
HB11–14	VSG-2	VSG-8	VSG-14	VSG-20
HB15–18	VSG-3	VSG-9	VSG-15	VSG-21
HB19–22	VSG-4	VSG-10	VSG-16	VSG-22
Weekend/ Holiday (HB07–22)	VSG-5	VSG-11	VSG-17	VSG-23
Night (HB23–06)	VSG-6	VSG-12	VSG-18	VSG-24
<b>Winter</b>				
HB07–10	VSG-25	VSG-31	VSG-37	VSG-43
HB11–14	VSG-26	VSG-32	VSG-38	VSG-44
HB15–18	VSG-27	VSG-33	VSG-39	VSG-45
HB19–22	VSG-28	VSG-34	VSG-40	VSG-46
Weekend/ Holiday (HB07–22)	VSG-29	VSG-35	VSG-41	VSG-47
Night (HB23–06)	VSG-30	VSG-36	VSG-42	VSG-48
<b>Rest-of-Year</b>				

HB07–10	VSG-49	VSG-55	VSG-61	VSG-67
HB11–14	VSG-50	VSG-56	VSG-62	VSG-68
HB15–18	VSG-51	VSG-57	VSG-63	VSG-69
HB19–22	VSG-52	VSG-58	VSG-64	VSG-70
Weekend/ Holiday (HB07–22)	VSG-53	VSG-59	VSG-65	VSG-71
Night (HB23–06)	VSG-54	VSG-60	VSG-66	VSG-72

Where:

Summer	=	May, June, July, and August
Winter	=	December, January, and February
Rest-of-Year	=	March, April, September, October, and November
HB07–10	=	weekday hours beginning 07:00–10:00
HB11–14	=	weekday hours beginning 11:00–14:00
HB15–18	=	weekday hours beginning 15:00–18:00
HB19–22	=	weekday hours beginning 19:00– 22:00
Weekend/Holiday	=	weekend and holiday hours beginning 07:00–22:00
Night	=	all hours beginning 23:00– 06:00

### Virtual Load Groups

	Load Zones A–F	Load Zones G–I	Load Zone J	Load Zone K
<b>Summer</b>				
HB07–10	VLG-1	VLG-4	VLG-8	VLG-12
HB11–14	VLG-2	VLG-5	VLG-9	VLG-13
HB15–18	VLG-2	VLG-6	VLG-10	VLG-14
HB19–22	VLG-1	VLG-4	VLG-8	VLG-15
Weekend/ Holiday (HB07–22)	VLG-3	VLG-4	VLG-8	VLG-16
Night (HB23–06)	VLG-1	VLG-7	VLG-11	VLG-12
<b>Winter</b>				
HB07–10	VLG-17	VLG-19	VLG-21	VLG-23
HB11–14	VLG-17	VLG-20	VLG-21	VLG-23
HB15–18	VLG-18	VLG-19	VLG-22	VLG-24
HB19–22	VLG-17	VLG-20	VLG-21	VLG-24
Weekend/ Holiday (HB07–22)	VLG-17	VLG-20	VLG-21	VLG-23
Night (HB23–06)	VLG-17	VLG-20	VLG-21	VLG-23
<b>Rest-of-Year</b>				
HB07–10	VLG-25	VLG-26	VLG-27	VLG-29

HB11–14	VLG-25	VLG-26	VLG-28	VLG-29
HB15–18	VLG-25	VLG-26	VLG-28	VLG-30
HB19–22	VLG-25	VLG-26	VLG-27	VLG-30
Weekend/ Holiday (HB07–22)	VLG-25	VLG-26	VLG-27	VLG-30
Night (HB23–06)	VLG-25	VLG-26	VLG-27	VLG-29

Where:

Summer	=	May, June, July, and August
Winter	=	December, January, and February
Rest-of-Year	=	March, April, September, October, and November
HB07–10	=	weekday hours beginning 07:00–10:00
HB11–14	=	weekday hours beginning 11:00–14:00
HB15–18	=	weekday hours beginning 15:00–18:00
HB19–22	=	weekday hours beginning 19:00– 22:00
Weekend/Holiday	=	weekend and holiday hours beginning 07:00–22:00
Night	=	all hours beginning 23:00– 06:00

#### **26.4.2.7 DADRP Component**

The DADRP Component shall be equal to the product of: (i) the Demand Reduction Provider’s monthly average of MWh of accepted Demand Reduction Bids during the prior summer Capability Period or, where the Demand Reduction Provider does not have a history of accepted Demand Reduction bids, a projected monthly average of the Demand Reduction Provider’s accepted Demand Reduction bids; (ii) the average Day-Ahead LBMP at the NYISO Reference Bus during the prior summer Capability Period; (iii) twenty percent (20%); and (iv) a factor of four (4). The ISO shall adjust the amount of Unsecured Credit and/or collateral that a Demand Reduction Provider is required to provide whenever the DADRP Component increases or decreases by ten percent (10%) or more.

### 26.4.2.8 DSASP Component

The DSASP Component is calculated every two months based on the Demand Side Resource's Operating Capacity available for the scheduling of such services, the delta between the Day-Ahead and hourly market clearing prices for such products in the like two-month period of the previous year, and the location of the Demand Side Resource. Resources located East of Central-East shall pay the Eastern reserves credit support requirement and Resources located West of Central-East shall pay the Western reserves credit support requirement. The DSASP Component shall be equal to:

- (a) For Demand Side Resources eligible to offer only Operating Reserves, the product of (i) the maximum hourly Operating Capacity (MW) for which the Demand Side Resource may be scheduled to provide Operating Reserves, (ii) the amount of Eastern or Western reserves credit support, as appropriate, in \$/MW per day, and (iii) three (3) days.

Where:

The amount of Eastern reserves credit support (\$/MW/day) for each two-month period	=	Eastern Price Differential for the same two-month period in the previous year * the higher of two (2) or the maximum number of daily Reserve Activations for the same two-month period in the previous year
The amount of Western reserves credit support (\$/MW/day) for each two-month period	=	Western Price Differential for the same two-month period in the previous year * the higher of two (2) or the maximum number of daily Reserve Activations for the same two-month period in the previous year
Two-month periods:	=	January and February March and April May and June July and August September and October November and December

MCP <sub>SRh</sub>	=	Hourly, time-weighted Market Clearing Price for Spinning Reserves
Eastern Price Differential	=	The hourly differential at the 97 <sup>th</sup> percentile of all hourly differentials between the Day-Ahead and Real-Time MCPSR <sub>h</sub> for Eastern Spinning Reserves for hours in the two-month period of the previous year when the Real-Time MCPSR <sub>h</sub> for Eastern Spinning Reserves exceeded the Day-Ahead MCPSR <sub>h</sub> for Eastern Spinning Reserves
Western Price Differential	=	The hourly differential at the 97 <sup>th</sup> percentile of all hourly differentials between the Day-Ahead and Real-Time MCPsSR <sub>h</sub> for Western Spinning Reserves for hours in the two-month period of the previous year when the Real-Time MCPSR <sub>h</sub> for Western Spinning Reserves exceeded the Day-Ahead MCPSR <sub>h</sub> for Western Spinning Reserves
Reserve Activations	=	The number of reserve activations at the 97 <sup>th</sup> percentile of daily reserve activations for days in each two month period of the previous year that had reserve activations.

- (b) For Demand Side Resources eligible to offer only Regulation Service, or Operating Reserves and Regulation Service, the product of (i) the maximum hourly Operating Capacity (MW) for which the Demand Side Resource may be scheduled to provide Regulation Service and Operating Reserves, (ii) the amount of regulation credit support, as appropriate, in \$/MW per day, and (iii) three (3) days.

Where:

The amount of regulation credit support (\$/MW/day) for each two-month period = Price Differential for the same two-month period in the previous year \* 24 hours

Two-month periods: = January and February  
March and April  
May and June

July and August  
 September and October  
 November and December

MCP <sub>RegH</sub>	=	Hourly, time-weighted Market Clearing Price for Regulation Services
Price Differential	=	The hourly differential at the 97 <sup>th</sup> percentile of all hourly differentials between the Day-Ahead and Hour-Ahead MCP <sub>RegH</sub> for hours in the two-month period of the previous year when the Real-Time MCP exceeded the Day-Ahead MCP

**26.4.2.9 Projected True-Up Exposure Component**

The Projected True-Up Exposure Component shall apply to any Customer whose four-month true-ups over the most recently invoiced four months average percentage credit exposure to the NYISO is greater than ten percent of the initial invoice settlements for the associated months. Customers subject to the Projected True-Up Exposure Component shall be required to provide secured credit to satisfy the requirement. The Projected True-Up Exposure Component shall be determined according to the following formula:

$$PTE = \left[ \sum_{N4} (Avg4TrueUp * Initial4Month) \right] + \left[ \sum_{NF} (AvgFinalTrueUp * InitialFinal) \right]$$

Where:

PTE	=	The amount of secured credit support required for the Projected True-Up Exposure Component
N4	=	Each month with an initial settlement without an associated 4 month settlement
NF	=	Each month with an initial settlement without an associated final bill close-out
Avg4TrueUp	=	Most recent six month rolling average percentage credit exposure of 4 month settlements to associated initial settlements, not to exceed a market-wide maximum percentage reasonably determined by the ISO

AvgFinalTrueUp = Most recent six month rolling average percentage credit exposure of final bill close-outs to associated 4 month settlements, not to exceed a market-wide maximum percentage reasonably determined by the ISO

Initial 4 Month = Initial settlement for the month N4

Initial Final = Initial settlement for the month NF

### **26.4.3 Calculation of Bidding Requirement**

The Bidding Requirement shall be an amount equal to the sum of:

- (i) the amount of bidding or nominating authorization that the Customer has requested for use in or during, as appropriate, an upcoming ISO-administered TCC auction, which shall account for all positive bids or nominations to purchase TCCs and the absolute value of all negative offers to sell TCCs; *provided, however,* that the amount of credit required for each TCC that the Customer bids or nominates to purchase, whether positive, negative, or zero shall not be less than (a) (2 x \$/MW for one-year TCCs) per MW for two-year TCCs, (b) \$1,500 per MW for one-year TCCs, (c) \$2,000 per MW for six-month TCCs, and (d) \$600 per MW for one-month TCCs;
- (ii) the approximate amount that the Customer may owe following an upcoming TCC auction as a result of converting expired ETAs into Historic Fixed Price TCCs pursuant to Section 19.2.1 of Attachment M to the OATT, which shall be calculated in accordance with the provisions of Section 19.2.1 regarding the purchase of TCCs with a duration of ten years;
- (iii) the amount of bidding authorization that the Customer has requested for use in an upcoming ISO-administered ICAP auction; and
- (iv) five (5) days prior to any ICAP Spot Market Auction, the amount that the Customer may be required to pay for UCAP in the auction, calculated as follows:

$$\sum_{L \in S} \left[ (ICPM_L * 1000 * Deficiency_L) + \left( ICPM_L * 1000 * \left( \frac{ZCP_L - 1}{2} \right) * RQT_L \right) \right]$$

Where:

- S* equals a set containing the following locations: each Locality and Rest of State,
- L* equals a location in the set *S*,
- ICPM<sub>L</sub>* equals the lesser of *UBRP<sub>L</sub>* or *LM<sub>L</sub>*,
- UBRP<sub>L</sub>* equals the UCAP based reference point (in \$/kW-Month) for location *L*, as determined on the ICAP Demand Curve for that location (or for NYCA, if *L* is Rest of State) for the applicable Obligation Procurement Period,
- LM<sub>L</sub>* equals (1) for any Locality *L* that is contained within another Locality *X*, the greater of *CPM<sub>L</sub>* or *CPM<sub>X</sub>*, or (2) for any other Locality or Rest of State, *CPM<sub>L</sub>*,
- CPM<sub>L</sub>* equals for location *L*,  $(1 + Margin_L) * MCP_L$ ,
- CPM<sub>X</sub>* equals for location *X*,  $(1 + Margin_X) * MCP_X$ ,
- Margin<sub>L</sub>* equals 25% if location *L* is New York City and 100% if location *L* is G-J Locality, Long Island or Rest of State,
- MCP<sub>L</sub>* equals the Market-Clearing Price for location *L* in the most recent Monthly Auction that established such a price for the month covered by the ICAP Spot Market Auction, measured in dollars per kilowatt-month,
- Deficiency<sub>L</sub>* equals the number of megawatts of Unforced Capacity that are to be procured in location *L* on behalf of that Customer in the ICAP Spot Market Auction in order to cover any deficiency for that Customer that exists in that location after the certification deadline for that ICAP Spot Market Auction less any deficiency calculated for that Customer for any Localities contained within location *L*, such value not to be less than zero,
- ZCP<sub>L</sub>* equals the percentage determined in accordance with Services Tariff Section 5.14.1.2 for the applicable ICAP Demand Curves as established at the \$0.00 point for the appropriate Capability Year, and
- RQT<sub>L</sub>* equals (1) if *L* is New York City or Long Island, that Customer's share of the Locational Minimum Unforced Capacity Requirement for location *L* or (2) if *L* is G-J Locality, that Customer's share of the Locational Minimum Unforced Capacity Requirement for the G-J Locality that remains after reducing this amount by its share of the Locational Minimum Unforced Capacity Requirements for New York City or, (3) if *L* is Rest of State, that Customer's share of the NYCA Minimum Unforced Capacity Requirement that remains after reducing this amount by (a) its share of the Locational Minimum Unforced Capacity Requirements for New York

City and Long Island and (b) that Customer's share of the Locational Minimum Unforced Capacity Requirement for the G-J Locality remaining after accounting for New York City, as calculated in (2) above; such value not to be less than zero.