Rate Schedule 3

Payments for Regulation Service

This Rate Schedule applies to Suppliers that provide Regulation Service to the ISO.

Transmission Customers will purchase Regulation Service from the ISO under the ISO OATT.

- **1.0** Obligations of the ISO and Suppliers
- **1.1 The ISO shall:**
 - (a) Establish Regulation Service criteria and requirements in the ISO Procedures to ensure that Generators Suppliers follow changes in Load consistent with the Reliability Rules;
 - (b) Provide RTD Base Point Signals and AGC Base Point Signals to Generators
 <u>Suppliers providing Regulation Service to direct their output;</u>
 - (c) Establish criteria in the ISO Procedures that Generators <u>Suppliers</u> must meet to qualify, or re-qualify, to supply Regulation Service;
 - (d) Establish minimum metering requirements and telecommunication capability
 required for a Generator Supplier to be able to respond to AGC Base Point Signals
 and RTD Base Point Signals sent by the ISO;
 - (e) Select Generators-Suppliers to provide Regulation Service in the Day-Ahead
 Market and Real-Time Market, as described in Section 2.0 of this Rate Schedule;

 Issued by:
 William J. Museler, President Elaine D. Robinson, Dir. Reg. Affairs
 Effective: February May 124, 20085

 Issued on:
 January March 248, 20085

 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-09023, et. al.,

 issued February 11July 20, 20064, 1016 FERC [61,111043 (20046).

(f) Pay Suppliers for providing Regulation Service as described in Sections 4.0, 5.0,
6.0 and 7.0 of this Rate Schedule; and

(g) Monitor Generators' <u>Suppliers</u> performance to ensure that they provide
 Regulation Service as required, as described in Section 3.0 of this Rate Schedule.

1.2 Each Supplier shall:

- (a) Register with the ISO the capacity its resources are qualified to bid in the Regulation Services market:
- (ba) Offer only Generators-Resources that are; (i) ISO-Committed Flexible or Self-Committed Flexible, provided however that Demand Side Resources shall be offered as ISO-Committed Flexible; within the dispatchable portion of their operating range, and; (ii) able to respond to AGC Base Point Signals sent by the ISO pursuant to the ISO Procedures, to provide Regulation Service;
- (<u>c</u>b) Not use, contract to provide, or otherwise commit Capability that is selected by the ISO to provide Regulation Service to provide Energy or Operating Reserves to any party other than the ISO;
- (de) Pay any charges imposed under this Rate Schedule including, if they are re-instituted the charges described in Section 8.0 of this Rate Schedule;
- (<u>ed</u>) Ensure that all of its <u>Generators Resources</u> that are selected to provide Regulation Service comply with Base Point Signals issued by the ISO at all times pursuant to

 Issued by: William J. Museler, President Elaine D. Robinson, Dir. Reg. Affairs
 Effective: February May 124, 20085

 Issued on:
 January March 248, 20085

 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al.,

 issued February 11July 20, 20064, 1016 FERC ¶ 61,111043 (20046).

Superseding FirstSecond Revised Sheet No. 272A Superseding FirstSecond Revised Sheet No. 272A

the ISO Procedures; and ensure that all of its Generators Resources that are

selected to provide Regulation Service comply with all criteria and ISO

Procedures that apply to providing Regulation Service.

2.0 Selection of Suppliers in the Day-Ahead Market and the Real-Time Market

(a) The ISO shall select Suppliers, in the Day-Ahead Market, to provide Regulation

Issued by:William J. Museler, President Elaine D. Robinson. Dir. Reg. AffairsEffective: February May 124, 20085Issued on:January March 248, 20085Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al.,issued February 11July 20, 20064, 1916 FERC [61,111043 (20046).

ThirdFourth Revised Sheet No. 273 Superseding SecondThird Revised Sheet No. 273

Service for each hour in the following Dispatch Day, from those that have Bid to provide Regulation Service from Generators-Resources that meet the qualification standards and criteria established in Section 1 of this Rate Schedule and in the ISO Procedures.

- (b) Real-Time Market: The ISO shall establish a Real-Time Market for Regulation Service and will establish a real-time Regulation Service market clearing price in each interval. During any period when the ISO suspends Generators'-Resources' obligation to follow the AGC Base Point Signals sent to Regulation Service providers, pursuant to Section 9.0 of this Rate Schedule, the Real-Time Market clearing price for Regulation Service shall automatically be set at zero, which shall be the price used for real-time balancing and settlement purposes. The ISO shall select Suppliers for Regulation Service from those that have Bid to provide Regulation Service from Generators Resources that meet the qualification standards and criteria established in the ISO Procedures.
- (c) The ISO shall establish separate market clearing prices for Regulation Service in the Day-Ahead Market and the Real-Time Market under Sections 4.0, 5.0 and 7.0

of this Rate Schedule. The ISO shall also compute Regulation Revenue

Issued by: William J. Muscler, President Elaine D. Robinson, Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al.,

Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-250-060225, e. ϵ issued February 11July 20, 20064, 1016 FERC ¶ 61,111043 (20046).

Second<u>Third</u> Revised Sheet No. 273A Superseding First<u>Second</u> Revised Sheet No. 273A

Adjustment Payments and Regulation Revenue Adjustment Charges under Section 6.0 of this Rate Schedule.

2.1 Bidding Process (a) A Supplier may submit a Bid in the Day- Ahead Market or the Real-Time Market to provide Regulation Service from eligible Generators<u>Resources</u>, provided, however, that Bids submitted by Suppliers that are attempting to re-qualify to provide Regulation Service, after being disqualified pursuant to Section 3.0 of this Rate Schedule 3, may be limited by the ISO pursuant to ISO Procedures.

(b) Bids rejected by the ISO may be modified and

Issued by:William J. Museler, President Elaine D. Robinson, Dir. Reg. AffairsEffective: February May 124, 20085Issued on:January March 248, 20085Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al.,issued February 11July 20, 20064, 1016 FERC ¶ 61,111043 (20046).

resubmitted by the Supplier to the ISO in accordance with the terms of the ISO Tariff.

(c) Each Bid shall contain the following information: (i) the maximum amount of Capability (in MW) that the Generator Resource is willing to provide for Regulation Service; (ii) the Generator's Resource's regulation response rate (in MW/Minute) which must be sufficient to permit that Generator Resource to provide the offered amount of Regulation Service within an RTD interval and which shall be the same as the response rate specified in the Energy Bid for that Generator provided, however, that the regulation response rate for Demand Side Resources shall be at least equal to its energy response rate; (iii) the Supplier's Availability Bid Price (in \$/MW); and (iv) the physical location and name or designation of the GeneratorResource.

Issued by:William J. Muscler, President Elaine D. Robinson, Dir. Reg. AffairsEffective: February May 124, 20085Issued on:January March 248, 20085Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al.,issued February 11July 20, 20064, 1016 FERC [61,111043 (20046).

ThirdFourth Revised Sheet No. 275Superseding Second Third Revised Sheet No. 275

3.0 Monitoring Regulation Service Performance and Performance Related Payment Adjustments

(a) The ISO shall establish (i) Generator-Resource performance measurement criteria;

ě.

(ii) procedures to disqualify Suppliers whose <u>Generators-Resources</u> consistently fail to meet those criteria; and (iii) procedures to re-qualify disqualified Suppliers, which may include a requirement to first demonstrate acceptable performance for a time.

Issued by: William J. Museler, President Elaine D. Robinson, Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al., issued February 11July 20, 20064, 1916 FERC [61,111043 (20046).

 (b) The ISO shall establish and implement a Performance Tracking System to monitor the performance of Generators Suppliers that provide Regulation Service. The ISO shall develop performance indices, which may vary with Control
 Performance, as part of the ISO Procedures. The Performance Tracking System shall compute the difference between the Energy

Issued by: William J. Museler, PresidentElaine D. Robinson, Dir. Reg. Affairs Effective: July May 245, 20081 Issued on: June March 624, 20081 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-023, issued July 20, 2006, 116 FERC ¶ 61.043 (2006). New York Independent System Operator, Inc.ThirdFourth Revised Sheet No. 276FERC Electric TariffSuperseding Substitute Second Third Revised Sheet No. 276Original Volume No. 2Sched. 3

actually supplied and the Energy scheduled by the ISO for all Generators <u>Suppliers</u> serving Load within the NYCA as set forth in the ISO Procedures. The ISO shall use these values to reduce Regulation Service payments pursuant to Section 5.4 of this Rate Schedule.

(c) <u>Suppliers Resources</u> that consistently fail to perform adequately may be disgualified by the ISO, pursuant to ISO Procedures.

4.0 Regulation Service Settlements - Day-Ahead Market

4.1 Calculation of Day-Ahead Market Clearing Prices

The ISO shall calculate a Day-Ahead Market clearing price for Regulation Service each hour of the following day. The Day-Ahead Market clearing price for each hour shall equal the Day-Ahead Shadow Price of the ISO's Regulation Service constraint for that hour, which shall be established under the ISO Procedures. Day-Ahead Shadow Prices will be calculated by the ISO's SCUC. Each hourly Day-Ahead Shadow Price shall equal the marginal Bid cost of scheduling Resources to provide additional Regulation Service in that hour, including any

Issued by: William J. Muscler, President Elaine D. Robinson. Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al., issued February 11July 20, 20064, 1916 FERC ¶ 61,111043 (20046). New York Independent System Operator, Inc.FirstSecond Revised Sheet No. 276.01FERC Electric TariffSuperseding OriginalFirst Revised Sheet No. 276.01Original Volume No. 2Sched. 3

impact on the Bid Production Cost of procuring Energy or Operating Reserves that would result from procuring an increment of Regulation Service in that hour,, as calculated during the fifth SCUC pass described in Section I.B of Attachment B to this ISO Services Tariff, and Section I.B of Attachment J to the ISO OATT. As a result, the Shadow Price shall include the Dav-Ahead Regulation Service Bid of the marginal Resource selected to provide Regulation Service (or in the applicable price on the Regulation Service Demand Curve during shortage conditions), plus any margins on the sale of Energy or Operating Reserves in the Day-Ahead Market that the Resource would forego if scheduling it to provide additional Regulation Service would lead to it being scheduled to provide less Energy or Operating Reserves. Shadow Prices shall also be consistent with the Regulation Service Demand Curves described in Section 7.0 of this Rate Schedule, which will ensure that Regulation Service is not scheduled by SCUC at a cost greater than the Regulation Service Demand Curve indicates should be paid. Each Supplier that is scheduled Day-Ahead to provide Regulation Service shall be paid the Day-Ahead Market clearing price in each hour, multiplied by the amount of Regulation Service that it is scheduled to provide in that hour.

Issued by: William J. Muscler, President Elaine D. Robinson, Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-09923, et. al., issued February 11July 20, 20064, 1916 FERC [61,111043 (20046). New York Independent System Operator, Inc.FirstSecond Revised Sheet No. 276.04FERC Electric TariffSuperseding OriginalFirst Revised Sheet No. 276.04Original Volume No. 2Sched. 3

5.1A Calculation of Real-Time Market Clearing Prices for Regulation Service

During EDRP/SCR Activations

During any interval in which the ISO is using scarcity pricing rule "A" or "B" to calculate LBMPs under section I.A.2.a or 2.b of Attachment B to this ISO Services Tariff, and Section I.A.2.a or 2.b of Attachment J to the ISO OATT, the real-time Regulation Service market clearing price may be recalculated in light of the Availability Bids of Suppliers and Lost Opportunity Costs of Generators scheduled to provide Regulation Service in real-time.

Specifically, when either scarcity pricing rule is applicable, the real-time Regulation Service clearing price shall be set to the higher of: (i) the highest total Availability Bid and Lost Opportunity Cost of any Regulation Service provider scheduled by RTD; and (ii) the market clearing price calculated under Section 5.1 of this Rate Schedule.

5.2 Real-Time Regulation Service Balancing Payments

Any deviation from a Generator's <u>Supplier's</u> Day-Ahead schedule to provide Regulation Service shall be settled pursuant to the following rules.

(a) When the Generator's <u>Supplier's</u> real-time Regulation Service schedule is less than its Day-Ahead Regulation Service schedule, the Generator shall pay a charge for the imbalance equal to the product of: (i) the Real-Time Market clearing price for Regulation Service; and (ii) the difference between the Generator's <u>Supplier's</u> Day-Ahead

Issued by: William J. Museler, President Elaine D. Robinson. Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al., issued February 11July 20, 20064, 1016 FERC 9 61,111043 (20046). New York Independent System Operator, Inc.FirstSecond Revised Sheet No. 276.05FERC Electric TariffSuperseding Substitute Original First Revised Sheet No. 276.05Original Volume No. 2Sched. 3

Regulation Service schedule and its real-time Regulation Service schedule (subject to possible adjustments pursuant to Section 5.4 of this Rate Schedule.)

(b) When the Generator's Supplier's real-time Regulation Service schedule is greater than its Day-Ahead Regulation Service schedule, the ISO shall pay the Generator Supplier an amount to compensate it for the imbalance equal to the product of: (i) the Real-Time market clearing price for Regulation Service; and (ii) the difference between the Generator's Supplier's real-time Regulation Service schedule and its Day-Ahead Regulation Service schedule(subject to possible adjustments pursuant to Section 5.4 of this Rate Schedule.)

5.3 Other Real-Time Regulation Service Payments

As is provided in Article 4 and Attachment C of the Services Tariff, the ISO shall compensate each ISO-Committed Flexible Generator that provides Regulation Service if its Bid Production Cost to provide the Energy and Ancillary Services it is scheduled to supply in the Real-Time Market, including start-up costs, minimum Load costs, and Availability Bids, exceeds the revenues it receives from the sale of Energy and Ancillary Services.

Issued by:William J. Muscler, President Elaine D. Robinson. Dir. Reg. AffairsEffective: February May 124, 20058Issued on:January March 248, 20085Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al.,issued February 11July 20, 20064, 1916 FERC ¶ 61,111043 (20046).

New York Independent System Operator, Inc.FirstSecond Revised Sheet No. 276.06FERC Electric TariffSuperseding OriginalFirst Revised Sheet No. 276.06Original Volume No. 2Sched. 3

No payments shall be made to any Generator Supplier providing Regulation Service in excess of the amount of Regulation Service scheduled by the ISO in the Real-Time Market, except to the extent that a Generator Supplier is directed to provide the excess amount by the ISO.

Finally, whenever a Generator's <u>Supplier's</u> real-time Regulation Service schedule is reduced by the ISO to a level lower than its Day-Ahead schedule for that product, the Generator's <u>Supplier's</u> Day-Ahead Margin shall be protected after accounting for any margin associated with other products that the <u>Generator Supplier's</u> is scheduled to provide in real-time. The rules governing the calculation of these Day-Ahead Margin Assurance Payments are set forth in Attachment J to this ISO Services Tariff.

5.4 Performance-Based Adjustments to Regulation Service Payments

The amount paid to each Generator Supplier for providing Regulation Service in each RTD interval i shall be reduced to reflect the Generator's Supplier's performance pursuant to the following formula:

Total Payment = Σ_i (Total Payment_i *(s_i/3600))

Where:

Total Payment_i = $(DAMCPreg_i \times DARcap_i) + ((RTRcap_i \times K_{PI}) - DARcap_i) \times RTMCPreg_i)$

Issued by: William J. Museler, President Elaine D. Robinson, Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al., issued February 11July 20, 20064, 1916 FERC ¶ 61,111043 (20046). New York Independent System Operator, Inc.ThirdFourth Revised Sheet No. 276AFERC Electric TariffSuperseding Second Third Revised Sheet No. 276AOriginal Volume No. 2Sched. 3

DAMCPreg_i is the applicable market clearing price for Regulation Service (in \$/MW), in the Day-Ahead Market, as established by the ISO pursuant to Section 4.1 of this Rate Schedule for the hour that includes RTD interval i;

DAR*cap*_i is the Regulation Service Capability (in MW) offered by the Generator <u>Resource</u> and selected by the ISO in the Day-Ahead Market in the hour that includes RTD interval i;

RTMCPreg_i is the applicable market clearing price for Regulation Service (in MW), in the Real-Time Market as established by the ISO under Section 5.1 of this Rate Schedule in RTD interval i;

RTRcap_i is the Regulation Service Capability (in MW) offered by the Generator Resource and selected by the ISO in the Real-Time Market in RTD interval i;

s_i is the number of seconds in interval i; and

K_{pi} is a factor, with a value between 0.0 and 1.0 inclusive, derived from each Generator's <u>Supplier's</u> Regulation Service performance, as measured by the performance indices set forth in the ISO Procedures and determined pursuant to the following equation:

 $K_{PI} = \underline{PI - PSF}$ 1-PSF

Issued by: William J. Museler, President Elaine D. Robinson, Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: Jonuary March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-023, issued July 20, 2006, 116 FERC ¶ 61.043 (2006).

 New York Independent System Operator, Inc.
 FirstSecond Revised Sheet No. 276A.01

 FERC Electric Tariff
 Superseding OriginalFirst Revised Sheet No. 276A.01

 Original Volume No. 2
 Sched. 3

5

Where:

PI is the Generator's performance index of the Resource; and

PSF is the payment scaling factor, established pursuant to ISO Procedures. The PSF shall be set between 0 and the minimum performance index required for payment of Availability payments. The PSF is established to reflect the extent of ISO compliance with the standards

Issued by: William J. Museler, President Elaine D. Robinson, Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al., issued February 11July 20, 20064, 1916 FERC ¶ 61,111043 (20046).

established by NERC, NPCC or Good Utility Practice for Control Performance and System Security. The PSF is set initially at zero. Should the ISO's compliance with these measures deteriorate, in a manner that can be improved if regulation performance improves, the PSF will be increased. <u>Generators Resources providing Regulation Service</u> will be required to increase their performance index to obtain the same total Regulation Service payment as they received during periods of good ISO performance, as measured by these standards.

6.0 Energy Settlement Rules for Generators Providing Regulation Service

6.1 Energy Settlements

For any interval in which a Generator is providing Regulation

Issued by: William J. Museler, President Elaine D. Robinson, Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al., issued February 11July 20, 20064, 1916 FERC ¶ 61,111043 (20046).

Second Third Revised Sheet No. 277 Superseding FirstSecond Revised Sheet No. 277

Service, it shall receive a settlement payment for Energy consistent with a realtime Energy injection equal to the lower of its actual generation or its AGC Base Point Signal. <u>Demand Side Resources providing Regulation Service shall not</u> receive a settlement payment for Energy.

Issued by:William J. Museler, PresidentElaine D. Robinson, Dir. Reg. AffairsEffective: February May 124, 20085Issued on:January March 248, 20085Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. el.,issued February 11July 20, 20064, 1016 FERC [61,111043 (20046).

6.2 Additional Payments/Charges When AGC Base Point Signals Exceed RTD Base Point Signals

For any interval in which a Generator that is providing Regulation Service receives an AGC Base Point Signal that is higher than its RTD Base Point Signal, it shall receive or pay a Regulation Revenue Adjustment Payment ("RRAP") or Regulation Revenue Adjustment Charge ("RRAC") calculated under the terms of this subsection. If the Energy Bid Price of such a Generator is higher than the LBMP at its location in that interval, the Generator shall receive a RRAP. Conversely, for any interval in which such a Generator's Energy Bid Price is lower than the LBMP at is location at that interval, the Generator shall be assessed a RRAC. RRAPs and RRACs shall be calculated using the following formula:

 $Payment/Charge = \int_{RTD Base Point Signal, min(AGC Base Point Signal, Actual Output))} \begin{bmatrix} Bid - LBMP \end{bmatrix} * s/3600$

Where:

s is the number of seconds in the RTD interval;

If the result of the calculation is positive then the Generator shall receive a RRAP. If it is negative then the Generator shall be subject to a RRAC. For purposes of this applying this formula, whenever the Generator's actual Bid exceeds the applicable LBMP the "Bid" term shall be set at a level equal to the lesser of the Generator's actual Bid or its reference Bid plus \$100/MWh. Demand Side Resources providing Regulation Service shall not be eligible for a RRAP and not liable for an RRAC.

Issued by: William J. Museler, President Elaine D. Robinson. Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al., issued February 11July 20, 20064, 1916 FERC ¶ 61,111043 (20046).

 New York Independent System Operator, Inc.
 FirstSecond Revised Sheet No. 278A

 FERC Electric Tariff
 Superseding Original First Revised Sheet No. 278A

 Original Volume No. 2
 Sched. 3

ż

6.3 Additional Charges/Payments When AGC Base Point Signals Are Lower than RTD Base Point Signals

For any interval in which a Generator that is providing Regulation Service receives an AGC Base Point Signal that is lower than its RTD Base Point Signal, it shall receive or pay a RRAP or RRAC calculated under the terms of this subsection. If the Energy Bid Price of such a Generator is higher than the LBMP at its location in that interval, the Generator shall be assessed a RRAC. Conversely, for any interval in which such a Generator's Energy Bid Price is lower than the LBMP at its location in that interval, the Generator's Energy Bid Price is lower than the LBMP at its location in that interval, the Generator's Energy Bid Price is lower than the LBMP at its location in that interval, the Generator shall receive a RRAP. RRAPs and RRACs shall be calculated using the following formula:

 $Payment/Charge = \int_{min(RTD Base Point Signal, max(AGC Base Point Signal, Actual Output))} For the state of the state of$

Where:

s is the number of seconds in the RTD interval;

If the result of the calculation is positive then the Generator shall receive a RRAP. If it is negative then the Generator shall be subject to a RRAC. For purposes of this formula, whenever the Generator's actual Bid is lower than the applicable LBMP the "Bid" term shall be set at a level equal to the higher of the Generator's actual Bid or its reference Bid minus \$100/MWh. Demand Side Resources providing Regulation Service shall not be eligible for a RRAP and not liable for an RRAC.

Issued by: William J. Muscler, President Elaine D. Robinson. Dir. Reg. Affairs Effective: February May 124, 2005 Issued on: January March 248, 2005 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al., issued February 11July 20, 20064, 1016 FERC [61,111043 (20046). New York Independent System Operator, Inc.FirstSecond Revised Sheet No. 287AFERC Electric TariffSuperseding Original First Revised Sheet No. 287AOriginal Volume No. 2Sched. 4

by eligible Suppliers located on Long Island. Each of these Operating Reserve requirements shall be defined consistent with the Reliability Rules and other applicable reliability standards. The ISO shall select Suppliers of Operating Reserves products to meet these requirements, including the locational Operating Reserves requirements, as part of its overall co-optimization process.

The ISO shall select Operating Reserves Suppliers that are properly located electrically so that all locational Operating Reserves requirements determined consistently with the requirements of Section 7.0 of this Rate Schedule are satisfied, and so that transmission Constraints resulting from either the commitment or dispatch of Generators do not limit the ISO's ability to deliver Energy to Loads in the case of a Contingency. The ISO will ensure that Suppliers that are compensated for using Capacity to provide one Operating Reserve product are not simultaneously compensated for providing another Operating Reserve product, or Regulation Service, using the same Capacity (consistent with the additive market clearing price calculation formulae in Sections 5.1 and 6.1 of this Rate Schedule).

1.2 Supplier Eligibility Criteria

The ISO shall enforce the following criteria, which define which types of Generators or Demand Side Resources Suppliers are eligible to supply particular Operating Reserve products.

a. Spinning Reserve: Generators <u>Suppliers</u> that are ISO Committed Flexible or Self-Committed Flexible, are operating within the dispatchable portion of their operating range, are capable of responding to ISO instructions to change their output level within

Issued by: William J. Museler, President Elaine D. Robinson, Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-09923, et. al., issued February 11July 20, 20064, 1916 FERC § 61,111043 (20046).

ten minutes, and are capable of producing Energy for at least thirty minutes and that meet the criteria set forth in the ISO Procedures shall be eligible to supply Spinning Reserve (except for Demand Side Resources that are Local Generators).

b. 10-Minute Non-Synchronized Reserve: Off-line Generators that are capable of starting, synchronizing, and increasing their output level within ten (10) minutes and that meet the criteria set forth in the ISO Procedures, and, when the ISO's software can support their provision of this product, Demand Side Resources that are capable of reducing their Energy usage within ten (10) minutes and that meet the criteria set forth in the ISO Procedures, shall be eligible, provided that they are capable of providing Energy for at least thirty minutes, to supply 10-Minute Non-Synchronized Reserve.

c. 30-Minute Reserve: (i) Generators that are ISO-Committed Flexible or Self-Committed Flexible and operating within the dispatchable portion of their operating range and Demand Side Resources, that are not Local Generators, that are capable of reducing their Energy usage within thirty (30) minutes shall be eligible to supply synchronized 30-Minute Reserves; (ii) Off-line Generators that are capable of starting, synchronizing, and increasing their output level within thirty (30) minutes and that meet the criteria set forth in the ISO Procedures, and when the ISO's software can support their provision of this product.- Demand Side Resources that are capable of reducing their Energy usage within thirty (30) minutes and that meet the criteria set forth in the ISO Procedures, shall be eligible to supply non-synchronized 30-Minute Reserves.

Issued by: William J. Museler, President Elaine D. Robinson, Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00923, et. al., issued February 11July 20, 20064, 1916 FERC § 61,111043 (20046).

 New York Independent System Operator, Inc.
 Second Third Revised Sheet No. 290

 FERC Electric Tariff
 Superseding Sub First Second Revised Sheet No. 290

 Original Volume No. 2
 Sched. 4

2.0 General Day-Ahead Market Rules

2.1 Bidding and Bid Selection

Resources capable of providing Spinning Reserve, 10-Minute Non-Synchronized Reserve and/or 30-Minute Reserve in the Day-Ahead commitment may submit Availability Bids for each hour of the upcoming day. If a Supplier offers Resources that are capable, based on their indicated commitment status, of providing Operating Reserves but does not submit an Availability Bid, its Day-Ahead Bid will be rejected in its entirety. A Supplier may resubmit a complete Day-Ahead Bid, provided that the new bid is timely. The same rules shall apply to Demand Side Resources capable of proving 10 Minute Non Synchronized Reserve and/or nonsynchronized 30 Minute Reserve when the ISO's software can support their provision of these products.

The ISO may schedule Suppliers that make themselves available to provide Operating Reserves up to the following maximum Operating Reserve levels: (i) for Spinning Reserves, the Resource's emergency response rate multiplied by ten; (ii) for 10-Minute Non-Synchronized Reserves, or for non-synchronized 30-Minute Reserves, the Resource's UOLN or UOLE, whichever is applicable at the relevant time (the Resource may offer one product or the other depending on the time required for it to start-up and synchronize to the grid; and (iii) for synchronized 30-Minute Reserves, the Resource's emergency response rate multiplied by twenty.

Issued by:William J. Museler, PresidentElaine D. Robinson. Dir. Reg. AffairsEffective: February May 124, 20085Issued on:January March 248, 20085Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-09023, et. al.,issued February 11July 20, 20064, 1016 FERC [61,111043 (20046).

New York Independent System Operator, Inc.FourthFifth Revised Sheet No. 292FERC Electric TariffSuperseding ThirdFourth Revised Sheet No. 292Original Volume No. 2Sched. 4

2.3 Real-Time Market Responsibilities of Suppliers Scheduled to Provide Operating Reserves in the Day-Ahead Market

Suppliers that are scheduled Day-Ahead to provide Operating Reserves shall either provide Operating Reserve, or Energy or, when the ISO's software can support Demand Side Resources' provision of non-synchronized Operating Reserves, reduce dDemand Reductions in real-time when scheduled by the ISO in all hours for which they have been selected to provide Operating Reserve and are physically capable of doing so. However, Suppliers that are scheduled Day-Ahead to provide Operating Reserves and have startup periods of two hours or less may advise the ISO no later than three hours prior to the first hour of their Day-Ahead schedule that they will not be available to provide Operating Reserves or Energy in real-time under normal conditions. Such Suppliers will be required to settle their Day-Ahead schedule at real-time prices pursuant to Section 6.2 of this Rate Schedule. The only restriction on Suppliers' ability to exercise this option is that all Suppliers with Day-Ahead Operating Reserves schedules must make the scheduled amount of Capacity available to the ISO for dispatch in the RTD if the ISO initiates a Supplemental Resource Evaluation.

3.0 General Real-Time Market Rules

3.1 Bid Selection

The ISO will automatically select Operating Reserves Suppliers in real-time from eligible Resources, and when the ISO's software can support their provision of non-synchronized Operating Reserves, Demand Side Resources, that submit Real-Time Bids pursuant to

Issued by: William J. Muscler, President Elaine D. Robinson, Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al., issued February 11July 20, 20064, 1016 FERC 9 61,111043 (20046). New York Independent System Operator, Inc.ThirdFourth Revised Sheet No. 292AFERC Electric TariffSuperseding Second Third Revised Sheet No. 292AOriginal Volume No. 2Sched. 4

Section 4.4 of, and Attachment D to, this ISO Services Tariff. AllEach Suppliers will automatically be assigned a real-time Operating Reserves Availability bid of \$0/MW for the quantity of Capacity that it makes available to the ISO in its Real-Time Bid. The ISO may schedule Suppliers that make themselves available to provide Operating Reserves up to the following maximum Operating Reserve levels: (i) for Spinning Reserves, the Resource's emergency response rate multiplied by ten; (ii) for 10-Minute Non-Synchronized Reserves, or for non-synchronized 30-Minute Reserves, the Resource's UOL_N or UOL_E, whichever is applicable at the relevant time (the Resource may offer one product or the other depending on the time required for it to start-up and synchronize to the grid); and (iii) for synchronized 30-Minute Reserves, the Resource's emergency response rate multiplied by twenty. However, the sum of the amount of Energy, or, when the ISO's software can support Demand Side Resources' provision of non-synchronized Operating Reserves, Demand Reduction, that each Resource is scheduled to provide, the amount of Regulation Service it is scheduled to provide, and the amount of each Operating Reserves product it is scheduled to provide shall not exceed its UOLN or UOL_E, whichever is applicable.

Suppliers will thus be selected on the basis of their response rates, their applicable upper operating limits, and their Energy Bids (which will reflect their opportunity costs) through a cooptimized real-time commitment process that minimizes the total bid cost of Energy, <u>or Demand</u> <u>Reduction</u>, Regulation

Issued by:William J. Museler, President Elaine D. Robinson, Dir. Reg. AffairsEffective: February May 124, 20085Issued on:January March 248, 20085Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-023, issuedJuly 20, 2006, 116 FERC ¶ 61.043 (2006).

FifthSixth Revised Sheet No. 294 Superseding FourthFifth Revised Sheet No. 294

3.4 Activation of Operating Reserves

All Resources that are selected by the ISO to provide Operating Reserves shall respond to the ISO's directions to activate in real-time.

3.5 Performance Tracking and Supplier Disqualifications

When a Supplier selected <u>committed</u> to supply Operating Reserves is activated, the ISO shall measure and track its actual Energy production <u>or its Demand Reduction</u> against its expected performance in real-time. The ISO may disqualify Suppliers that consistently fail to provide Energy <u>or Demand Reduction</u> when called upon to do so in real-time from providing Operating Reserves in the future. If a Resource has been disqualified, the ISO shall require it to pass a re-qualification test before accepting any additional Bids to supply Operating Reserves from it. Disqualification and re-qualification criteria shall be set forth in the ISO Procedures.

<u>3.6 Performance Index for Demand Side Resource Suppliers of Operating</u> <u>Reserves</u>

The ISO shall produce a performance index for purposes of calculating a Day Ahead Margin Assurance payment for a Demand Side Resource providing Operating Reserves. The performance index shall take account of the actual Demand Reduction achieved by the Supplier of Operating Reserves following the ISO's instruction to convert Operating Reserves to Demand Reduction.

 The performance index shall be a factor with a value between 0.0 and 1.0 inclusive. For

 each interval in which the ISO has not instructed the Demand Side Resource to covert its

 Operating Reserves to Demand Reduction. the Performance Index shall have a value of one. For

 Issued by:
 Elaine D. Robinson. Dir. Reg. AffairsWilliam J. Museler, President
 Effective: February May 124, 20085

 Issued on:
 January March 248, 20085

Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-09923, et. al., issued February 11July 20, 20064, 1916 FERC ¶ 61,111043 (20046).

Original Sheet No. 294A

each interval in which the ISO has instructed the Demand Side Resource to convert its Operating

Reserves to Demand Reduction the Performance Index shall be calculated pursuant to the

following formula, provided however when UAGi is zero or less, the Reserve PI shall be set to

zero:

Reserve PI = Min [(UAGi / ADGi + .1), 1]

Where:

<u>Reserve PI = Reserve Performance Index</u> <u>UAGi = Average actual demand reduction for interval i.</u> <u>represented as a positive generation value</u> <u>ADGi = Average scheduled demand reduction for interval i. represented as a</u> <u>positive generation base point</u>

4.0 Operating Reserves Settlements - General Rules

4.1 Establishing Locational Reserve Prices

Except as noted below, the ISO shall calculate separate Day-Ahead Market and Real-

Time Market prices for each of the products

Issued by:	Elaine D. Robinson, Dir. Reg. Affairs	Effective:	<u>May 24, 2008</u>
Issued on:	March 24, 2008		
	with order of the Federal Energy Regulatory Comm	ission, Docket No. ER04-230	-023, issued
July 20, 2006, 1	<u>116 FERC ¶ 61.043 (2006).</u>		

Fourth<u>Fifth</u> Revised Sheet No. 297 Superseding Third<u>Fourth</u> Revised Sheet No. 297

5.2 Other Day-Ahead Payments

As is provided in Section 4.10 and Attachment C of this ISO Services Tariff, the ISO shall compensate each ISO-Committed Flexible Resource-Generator providing Operating Reserves if its Bid Production Cost to provide the Energy and Ancillary Services it is scheduled to supply in the Day-Ahead Market, including start-up costs, minimum Load costs, and Availability Bids, exceeds the revenues it receives from the sale of Energy and Ancillary Services. <u>As is provided in Attachment C of this ISO Services Tariff, the ISO shall compensate ISO-Committed Demand Side Resources providing Operating Reserves if their Bids to provide Operating Reserves scheduled in the Day-Ahead Market exceed the revenues received from the sale of Operating Reserves and from any margin earned on the sale of Regulation Service in the Day-Ahead Market settlement.</u>

6.0 Operating Reserve Settlements – Real-Time Market

6.1 Calculation of Real-Time Market Clearing Prices

The ISO shall calculate Real-Time Market clearing prices for each Operating Reserve product for each location in every interval. Except when the circumstances described below in Section 6.1A apply, each real-time market-clearing price shall equal the sum of the relevant realtime locational Shadow Prices for a given product, subject to the restriction described in Section 4.3 of this Rate Schedule.

Issued by: William J. Museler, President Elaine D. Robinson, Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al., issued February 11July 20, 20064, 1916 FERC ¶ 61,111043 (20046).

Original Sheet No. 297A

New York Independent System Operator, Inc. FERC Electric Tariff Original Volume No. 2 Sched. 4

The Real-Time Market clearing price for a particular Operating Reserve product for a particular location shall reflect the Shadow Prices associated with all of the ISO-defined Operating Reserve requirements, including locational requirements, that a particular Operating Reserves product from that location may be used to satisfy in a given interval. The ISO shall calculate the Real-Time Market clearing prices using the following formulae:

Issued by:	Elaine D. Robinson, Dir. Reg. Affairs	Effective:	May 24, 2008	
Issued on:	March 24, 2008	·		
Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-023, issued				
July 20, 2006, 1	<u>16 FERC ¶ 61.043 (2006).</u>			

ensure that Operating Reserves are not scheduled by RTC at a cost greater than the relevant Operating Reserve Demand Curve indicates should be paid. If there is more Operating Reserve of the required quality than is needed to meet a particular locational Operating Reserve requirement then the Shadow Price for that Operating Reserve requirement constraint shall be zero.

Each Supplier that is scheduled in real-time to provide Operating Reserve shall be paid the applicable Real-Time Market clearing price, based on its location and the quality of Operating Reserve scheduled, multiplied by the amount of Operating Reserve that the Supplier is scheduled to provide in each interval that was not scheduled Day-Ahead.

6.1A Calculation of Real-Time Market Clearing Prices for Operating Reserves During EDRP/SCR Activations

A. During Intervals When Scarcity Pricing Rule "A" Applies

During any interval in which the ISO is using scarcity pricing rule "A" to calculate LBMPs under Section I.A.2.a of Attachment B to this ISO Services Tariff, and Section I.A.2.a of Attachment J to the ISO OATT, the real-time market clearing prices for some Operating Reserves products may be recalculated by in light of the Lost Opportunity Costs of Resources that are scheduled to provide Spinning Reserves and synchronized 30-Minute Reserves in the manner described below. The ISO shall also consider the Lost Opportunity Costs of Resources providing lower quality Operating Reserves to ensure that the requirements of Section 4.3 of this Rate Schedule are not violated. Specifically:

Issued by: <u>Elaine D. Robinson. Dir. Reg. Affairs</u>William J. Museler, President Effective: February May 124, 20085 Issued on: <u>January March 248, 20085</u> Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al., issued February 11July 20, 20064, 1916 FERC ¶ 61,111043 (20046).

FourthFifth Revised Sheet No. 301 Superseding ThirdFourth Revised Sheet No. 301

The Eastern 10-Minute Non-Synchronized Reserve market clearing price shall be the higher of: (i) the highest Lost Opportunity Cost of any provider of Eastern synchronized 30-Minute Reserve that is scheduled by RTD and is not located on Long Island; and (ii) the original market clearing price calculated under Section 6.1 above.

The Eastern 30-Minute Reserve market clearing price shall be the higher of: (i) the highest Lost Opportunity Cost of any provider of Eastern synchronized 30-Minute Reserve that is scheduled by RTD and is not located on Long Island; and (ii) the original market clearing price calculated under Section 6.1 above.

Real-Time Market clearing prices for Western Reserve shall not be affected under scarcity pricing rule "B".

6.2 Operating Reserve Balancing Payments

Any deviation in performance from a Supplier's Day-Ahead schedule to provide Operating Reserves, including deviations that result from schedule modifications made by the ISO, shall be settled pursuant to the following rules.

(a) When the Supplier's real-time Operating Reserves schedule is less than its assigned Day-Ahead Operating Reserves schedule, the Supplier shall pay a charge for the imbalance equal to the product of: (i) the Real-Time Market clearing price for the relevant Operating Reserves Product in the relevant location; and (ii) the difference between the Supplier's Day-Ahead and real-time Operating Reserves schedules.

Issued by:William J. Museler, PresidentElaine D. Robinson. DirEffective: FebruaryMay 124, 20085Issued on:January March 248, 20085Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al.,issued February 11July 20, 20064, 1016 FERC [61,111043 (20046).

SixthSeventh Revised Sheet No. 302 Superseding FifthSixth Revised Sheet No. 302

(b) When the Supplier's real-time Operating Reserves schedule is greater than its assigned Day-Ahead Operating Reserves schedule, the ISO shall pay the Supplier an amount to compensate it for the imbalance equal to the product of: (i) the Real-Time Market clearing price for the relevant Operating Reserve product in the relevant location; and (ii) the difference between the Supplier's Day-Ahead and real-time Operating Reserves schedules.

6.3. Other Real-Time Payments

The ISO shall pay Generators that are selected to provide Operating Reserves, but are directed to convert to Energy production in real-time, the applicable Real-Time LBMP for all Energy they are directed to produce in excess of their Day-Ahead schedule.

As is provided in Section 4.10 and Attachment C of this ISO Services Tariff, the ISO shall compensate each eligible Supplier Generator providing Operating Reserves if its Bid Production Cost to provide the Energy and Ancillary Services it is scheduled to supply in the Real-Time Market, including Minimum Generation Bid and Start-Up Bid costs exceeds the revenues it receives from the sale of Energy and Ancillary Services. Any Supplier Generator that provides Energy during a large event reserve pickup or a maximum generation event, as described in Sections 4.4.4(A) (1) and (2) of this ISO Services Tariff shall be eligible for a Bid Production Cost guarantee payment calculated, under Attachment C, solely for the duration of the large event reserve pickup or maximum generation pickup. Such payments shall be excluded from the ISO's calculation of real-time Bid Production Cost guarantee payments otherwise payable to Suppliers on that Dispatch Day.

Issued by: William J. Museler, PresidentElaine D. Robinson, Dir. Reg. Affairs Effective: FebruaryMay 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al., issued February 11July 20, 20064, 1016 FERC ¶ 61,111043 (20046). New York Independent System Operator, Inc.ThirdFourth Revised Sheet No. 302AFERC Electric TariffSuperseding Second Third Revised Sheet No. 302AOriginal Volume No. 2Sched. 4

Finally, whenever a Resource's <u>Supplier's</u> real-time Operating Reserves schedule is reduced by the ISO to a level lower than its Day-Ahead schedule for that product, the Resource's <u>Supplier's</u> Day-Ahead Margin shall be protected after accounting for any margin associated with other products that the Resource is scheduled to provide in real-time for that time period. The rules governing the calculation of these Day-Ahead Margin Assurance Payments are set forth in Attachment J to this ISO Services Tariff.

7.0 Operating Reserve Demand Curves

The ISO shall establish nine Operating Reserve Demand Curves, one for each Operating Reserves requirement. Specifically, there shall be a demand curve for: (i) Total Spinning Reserves; (ii) Eastern or Long Island Spinning Reserves; (iii) Long Island Spinning Reserves; (iv) Total 10-Minute Non-Synchronized Reserves; (v) Eastern or Long Island 10-Minute Non-Synchronized Reserves; (vi) Long Island 10-Minute Non-Synchronized Reserves; (vii) Total 30-Minute Reserves; (viii) Eastern or Long Island 30-Minute Reserves; and (ix) Long Island 30-Minute Reserves. Each Operating Reserve Demand Curve will apply to both the Day-Ahead Market and the Real-Time Market for the relevant product and location.

The market clearing pricing for Operating Reserves shall be calculated pursuant to Sections 5.1 and 6.1 of this Rate Schedule and in a manner consistent with the demand curves established in this Section so that Operating Reserves are not purchased by SCUC or RTC at a cost higher than the relevant demand curve indicates should be paid.

Issued by: Issued on: Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-00023, et. al., issued February 11July 20, 20064, 1916 FERC ¶ 61,111043 (20046).

ATTACHMENT C

FORMULAS FOR DETERMINING BID PRODUCTION COST GUARANTEE PAYMENTS

I. Supplemental Payments to Generators and Demand Resources

Three supplemental payments for Generators are described in this attachment: (i) Day-Ahead Bid Production Cost guarantees; (ii) Real-time Bid Production guarantees for all intervals except maximum generation pickups and large event reserve pickups; and (iii) Real-time Bid Production Cost guarantees for maximum generation pickups and large event reserve pickups. Generators shall be eligible for these payments under the circumstances described in Article 4 and Rate Schedule 4 of this ISO Services Tariff.

For purposes of this Section I only, Demand Side Resources that are eligible committed to provide non-synchronized Operating Reserves under Rate Schedule 4 of this ISO Services Tariff, shall be treated the same as Generators with respect to the determination of supplemental payments-insofar as they are providing non-synchronized Operating Reserves. Demand Side Resources<u>Reduction Providers</u> that provide Demand Reductions through in the Day-Ahead Market shall be eligible for supplemental payments under Section II, but not this Section I. Demand Side Resources committed in the Day-Ahead market to provide synchronized Operating Reserves shall be eligible for supplemental payments under Section IV A. Demand Side Resources committed in the real-time market to provide synchronized Operating Reserves or Regulation Service shall be eligible for supplemental paymental payments under Section IV B.

Issued by: William J. Muscler, Prosident Elaine D. Robinson, Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-02300, et. al., issued February 11July 20, 20046, 1916 FERC 9 61,111043 (20046). New York Independent System Operator, Inc.FirstSecond Revised Sheet No. 421AFERC Electric TariffSuperseding Original First Revised Sheet No. 421AOriginal Volume No. 2Attachment C

A. Day-Ahead Bid Production Cost Guarantee Formulas

Day-Ahead Bid Production Cost Guarantee =

$$\sum_{g \in G} \max \left[\sum_{h=1}^{24} \begin{pmatrix} EH_{gh}^{DA} \\ \int C_{gh}^{DA} + MGC_{gh}^{DA} MGH_{gh}^{DA} + SUC_{gh}^{DA} NSUH_{gh}^{DA} \\ MGH_{gh}^{DA} \\ - LBMP_{gh}^{DA} EH_{gh}^{DA} - NASR_{gh}^{DA} \end{pmatrix} \right]$$

Where:

G	=	set of Generators;
EH _{gh} ^{DA}	=	Energy scheduled Day-Ahead to be produced by Generator g in hour h expressed in terms of MW;
MGH _{gh} ^{DA}		Energy scheduled Day-Ahead to be produced by the minimum generation segment of Generator g in hour h expressed in terms of MW;
C _{gh} DA	=	Bid cost submitted by Generator g, or when applicable the mitigated Bid cost curve for Generator g, in the Day-Ahead Market for hour h expressed in terms of \$/MWh;
MGC _{gh} ^{DA}	=	Minimum Generation Bid by Generator g, or when applicable the mitigated Minimum Generation Bid for Generator g, for hour h in the Day-Ahead Market, expressed in terms of \$/MW;
SUC _{gh} DA		Start-Up Bid by Generator g, or when applicable the mitigated Start-Up Bid for Generator g, in hour h into the Day-Ahead Market expressed in terms of \$/start;
NSUH _{gh} ^{DA}	=	number of times Generator g is scheduled Day-Ahead to start up in hour h;
LBMPgh ^{DA}	=	Day-Ahead LBMP at Generator g's bus in hour h expressed in \$/MWh;

Issued by:William J. Museler, PresidentElaine D. Robinson, Dir. Reg. AffairsEffective: February May 124, 20085Issued on:January March 248, 20085Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-02300, et. al.,issued February 11July 20, 20046, 1016 FERC ¶ 61,111043 (20046).

New York Independent System Operator, Inc.ThirdFourth Revised Sheet No. 423AFERC Electric TariffSuperseding Second Third Revised Sheet No. 423AOriginal Volume No. 2Attachment C

II. Supplemental Payments for Curtailment Initiation Costs

A supplemental payment for Curtailment Initiation Costs shall be made when the Curtailment Initiation Cost Bid and the Demand Reduction Bid price <u>offered by a Demand</u> <u>Reduction Provider</u> for any Demand Reduction committed by the ISO in the Day-Ahead market over the [twenty-four (24) hour] day exceeds Day-Ahead LBMP revenue, provided however that Supplemental payments made to Demand Reduction Providers that fail to complete their scheduled reductions may be reduced by the ISO, pursuant to ISO Procedures.

III. Supplemental Payments for Special Case Resources

A supplemental payment for Minimum Payment Nominations shall be made when the Minimum Payment Nomination for any Special Case Resource committed by the ISO during a Forecast Operating Reserve shortage exceeds the LBMP revenue received for performance by that Special Case Resource <u>provided</u>, however, that the ISO shall set to zero the Minimum <u>Payment Nomination for Special Case Resource Capacity in each interval in which such capacity</u> was scheduled Day-Ahead to provide Operating Reserves, Regulation Service or Energy. <u>IV. Supplemental Payments for Demand Side Resources providing Synchronized</u>

Operating Reserves

<u>A. A supplemental payment to a Demand Side Resource with a synchronized Operating</u> <u>Reserves or Regulation Service schedule in the Day-Ahead Market shall be calculated by setting</u> to zero all terms provided in Section I. A. of this Attachment C. with which Day-Ahead <u>supplemental payments are calculated, with the exception of the term NASR</u>^{DA} which shall be calculated pursuant to its description.

Issued by: William J. Museler, President Elaine D. Robinson, Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-02399, et. al., issued February 11July 20, 20046, 1916 FERC ¶ 61,111043 (20046).

<u>B. A supplemental payment to a Demand Side Resource with a synchronized Operating</u> <u>Reserves schedule in the real-time Market shall be calculated by setting to zero all terms</u> <u>provided in Section I.B. of this Attachment C. with which real-time supplemental payments are</u> <u>calculated, with the exception of the term NASR</u>^{TOT} which shall be calculated pursuant to its description.

Generators with start-up times of greater than twenty-four (24) hours will have their startup cost Bids equally prorated over the course of each day included in their start-up period. Consequently, units whose start-ups are aborted will receive a prorated portion of those payments, based on the portion of the start-up sequence they have completed (e.g., if a unit with a seventy-two (72) hour start-up time has its start-up sequence aborted after forty-eight (48) hours, it would receive two-thirds (2/3) of its start-up cost Bid).

 Issued by:
 Elaine D. Robinson, Dir. Reg. Affairs
 William J. Museler, President
 Effective: January May 24, 20081

 Issued on:
 January March 246, 20081
 January March 246, 20081

 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER9904-4235230-00023, issued December 18July 20, 20096. 116 FERC ¶ 61,043 (2006).
c) The ISO shall implement automated procedures within the SCUC for Constrained Areas, and within RTC for Constrained Areas. Such automated procedures will: (i) determine whether any Day-Ahead or Real-Time Energy Bids, including start-up costs Bids and Minimum Generation Bids but excluding Ancillary Services Bids, that have not been adequately justified to the Market Monitoring Unit and the Market Advisor exceed the thresholds for economic withholding specified in Section 3.1.2; and if so, (ii) determine whether such bids would cause material price effects or changes in guarantee payments as specified in Section 3.2.1.

d) The ISO shall forgo performance of the additional SCUC and RTC passes necessary for automated mitigation of bids in a given Day-Ahead Market or Real-Time Market if evaluation of unmitigated bids results in prices at levels at which it is unlikely that the thresholds for bid mitigation will be triggered.

3.2.3. Section 205 Filings

In addition, tThe ISO shall make a filing under § 205 with the Commission seeking authorization to apply an appropriate mitigation measure to conduct that departs significantly from the conduct that would be expected under competitive market conditions but does not rise to the thresholds specified in sections 3.1.1 through 3.1.3 above if that conduct has a significant effect on market prices or guarantee payments as specified below, unless the ISO determines, from information provided by the Market Party or Parties that would be subject to mitigation or other information available to the ISO that the conduct and associated price or guarantee payments are attributable to legitimate competitive market forces or incentives. For purposes of this section, conduct shall be deemed to have an effect on market prices or guarantee payments that is significant if it exceeds one of the following thresholds:

- (1) an increase of 100 percent in the hourly day-ahead or real-time energy LBMP at any location, or of any other price in an ISO Administered Market; or
- (2) an increase of 100 percent in guarantee payments to a Market Party for a day.

In addition, the ISO shall make a filing under § 205 with the Commission seeking authorization to apply an appropriate mitigation measure to conduct of a Demand Side Resource participating in NYISO's Operating Reserves or Regulation Service markets that departs significantly from the conduct that would be expected under competitive market conditions unless the ISO determines, from information provided by the Market Party or Parties that would be subject to mitigation or other information available to the ISO that the conduct and associated price or payments in the ISO markets are attributable to legitimate competitive market forces or incentives.

Issued by:Elaine D. Robinson, Dir. Reg. AffairsMark S. Lynch, PresidentEffective:July May 2411, 20085Issued on:July March 2411, 20085Filed to comply with order of the Federal Energy Regulatory Commission, Docket Nos. ER04-230-02306, et. al.,issued on June 24July 20, 20056, 1146 FERC [61,468043 (20056).

ThirdFourth Revised Sheet No. 486 Superseding SecondThird Revised Sheet No. 486

ATTACHMENT J

DETERMINATION OF DAY-AHEAD MARGIN ASSURANCE PAYMENTS

1.0 General Rule

If an eligible Supplier buys out of a Day-Ahead Energy, Regulation Service or Operating Reserve schedule in a manner that reduces its Day-Ahead Margin it shall receive a Day-Ahead Margin Assurance Payment, except as noted in Sections 4.0, and 5.0 of this Attachment J. The purpose of such payments is to protect Suppliers' Day-Ahead Margins associated with real-time reductions after accounting for: (i) any real-time profits associated with offsetting increases in real-time Energy, Regulation Service, or Operating Reserve Schedules; and (ii) any Supplierrequested real-time de-rate granted by the ISO.

2.0 Eligibility for Receiving Day-Ahead Margin Assurance Payments

The following categories of Suppliers shall be eligible to receive Day-Ahead Margin Assurance Payments: (i) all Self-Committed Flexible and ISO-Committed Flexible Generators that are online and dispatched by RTD; (ii) Demand Side Resources committed to provide <u>Operating Reserves or Regulation Service:</u> (iii) any Supplier that is scheduled out of economic merit order by the ISO in response to an ISO or Transmission Owner system security need or to permit the ISO to procure additional Operating Reserves; (iiig) any Supplier that is derated or decommitted by the ISO in response to an ISO or Transmission Owner system security need or to permit the ISO to procure additional Operating Reserves; (iiig) any Supplier that is derated or to permit the ISO to procure additional Operating Reserves; and (iv) Energy Limited Resources with a total margin for the dispatch day that is less than its Day-Ahead margin as a result of an ISO-approved real-time reduction in scheduled output from its Day-Ahead schedule for Energy limited reasons.

Issued by: Mark S. Lynch, President<u>Elaine D. Robinson, Dir. Reg. Affairs</u> Effective: July May 242, 20085 Issued on: May March 243, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-023, issued July 20, 2006, 116 FERC ¶ 61.043 (2006). New York Independent System Operator, Inc.FirstSecond Revised Sheet No. 486.00FERC Electric TariffSuperseding OriginalFirst Revised Sheet No. 486.00Original Volume No. 2Attachment J

3.0 Calculation of Day-Ahead Margin Assurance Payments

3.0.1 Day-Ahead Margin Assurance Payments for SuppliersGenerators shall be

determined by applying the following equations to each individual Generator using the terms as

defined in subsection 3.03: (or, when applicable, to each individual Demand Side Resource):

 $DMAP_{hu} = max \left(0, \sum_{i \in h} CDMAP_{iu} \right)$ where:

$$CDMAP_{iu} = CDMAPen_{iu} + \sum_{p} CDMAPres_{iup} + CDMAPreg_{iu}$$
,

If the Supplier's_-real-time Energy schedule is lower than its Day-Ahead Energy schedule then:

$$CDMAPen_{iu} = \begin{cases} [DASen_{hu} - LL_{iu}] \times RTPen_{iu} \\ DASen_{hu} \\ - \int DABen_{hu} \\ LL_{iu} \end{cases} * \frac{Seconds_i}{3600},$$

If the Supplier's real-time Energy schedule is greater than or equal to its Day-Ahead Energy schedule then:

$$CDMAPen_{iu} = MIN \left(\begin{cases} [DASen_{hu} - UL_{iu}] \times RTPen_{iu} \\ UL_{iu} \\ + \int_{DASen_{hu}} RTBen_{iu} \\ DASen_{hu} \end{cases} \right\} * \frac{Seconds_i}{3600}, 0$$

Issued by: William J. Muscler, President Elaine D. Robinson, Dir Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-02300, et. al., issued February 11July 20, 20046, 1916 FERC ¶ 61,111043 (20046). New York Independent System Operator, Inc.FirstSecond Revised Sheet No. 486.01FERC Electric TariffSuperseding OriginalFirst Revised Sheet No. 486.01Original Volume No. 2Attachment J

If the Supplier's real-time schedule for a given Operating Reserve product, p, is lower than its Day-Ahead Operating Reserve schedule for that product then:

$$CDMAPres_{iup} = \left[\left(DASres_{hup} - RTSres_{iup} \right) \times \left(RTPres_{iup} - DABres_{hup} \right) \right] * \frac{Seconds_i}{3600}$$

If the Supplier's real-time schedule for a given Operating Reserve product, p, is greater than or equal to its Day-Ahead Operating Reserve schedule for that product then:

$$CDMAPres_{iup} = [(DASres_{hup} - RTSres_{iup}) \times (RTPres_{iup})] * \frac{Seconds_i}{3600}$$

If the Supplier's real-time Regulation Service schedule is less than its Day-Ahead Regulation Service schedule then:

$$CDMAPreg_{iu} = [(DASreg_{hu} - RTSreg_{iu}) \times (RTPreg_{iu} - DABreg_{hu})] * \frac{Seconds_i}{3600}$$

If the Supplier's real-time Regulation Schedule is greater than or equal to the Day-Ahead Regulation Service schedule then:

$$CDMAPreg_{iu} = [(DASreg_{iu} - RTSreg_{iu}) \times MAX((RTPreg_{iu} - RTBreg_{iu}), 0)] * \frac{Seconds_i}{3600} \pm \frac{1}{3}$$

3.02. Day-Ahead Margin Assurance Payments for Demand Side resources scheduled to

provide Operating Reserves or Regulation Service shall be determined by applying the following

equations to each individual Demand Side Resource using the terms as defined in subsection

<u>3.03</u>:

$$DMAP_{hu} = max \left(0, \sum_{i \in h} CDMAP_{iu} \right) where:$$

$$CDMAP_{iu} = \sum_{p} CDMAPres_{iup} + CDMAPreg_{iu} \pm$$

If the Demand Side Resource's real-time schedule for a given Operating Reserve product. p. is lower than its Day-Ahead Operating Reserve schedule for that product then:

Issued by: <u>Elaine D. Robinson. Dir. Reg. Affairs</u>William J. Museler, President Effective: FebruaryMay 124, 20085 Issued on: <u>January March 248, 20085</u> Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-02300, et. al., issued February 11July 20, 20046, 1016 FERC ¶ 61,111043 (20046). <u>New York Independent System Operator, Inc.</u> <u>FERC Electric Tariff</u> <u>Original Volume No. 2</u> <u>Attachment J</u>

Original Sheet No. 486.01a

 $CDMAPres_{iup} = [(DASres_{hup} - RTSres_{iup}) \times (RTPres_{iup} - DABres_{hup})] * RPIiu * \frac{Seconds_i}{3600}$

If the Demand Side Resource's real-time schedule for a given Operating Reserve product, p, is greater than or equal to its Day-Ahead Operating Reserve schedule for that product then:

$$CDMAPres_{iup} = \left[\left(DASres_{hup} - RTSres_{iup} \right) \times \left(RTPres_{iup} \right) \right] * RPI iu * \frac{Seconds_i}{3600}$$

If the Demand Side Resource's real-time Regulation Service schedule is less than its Day-Ahead Regulation Service schedule then:

 $CDMAPreg_{iu} = [(DASreg_{hu} - RTSreg_{iu}) \times (RTPreg_{iu} - DABreg_{hu})] * \frac{Seconds_i}{3600}$

If the Demand Side Resource's real-time Regulation Schedule is greater than or equal to the Day-Ahead Regulation Service schedule then:

$$CDMAPreg_{in} = [(DASreg_{in} - RTSreg_{in}) \times MAX((RTPreg_{in} - RTBreg_{in}), 0)] * \frac{Seconds_{i}}{3600}$$

3.03 Terms used is this Attachment J:

where:

h is the hour that includes interval i;

 $DMAP_{hu} = the Day-Ahead Margin Assurance Payment attributable in any hour h to any Supplier u;$

 $CDMAP_{iu}$ = the contribution of RTD interval *i* to the Day-Ahead Margin Assurance Payment for Supplier *u*;

 $CDMAPen_{iu}$ = the Energy contribution of RTD interval *i* to the Day-Ahead Margin Assurance Payment for Supplier *u*;

 $CDMAPreg_{iu}$ = the Regulation Service contribution of RTD interval *i* to the Day-Ahead Margin Assurance Payment for Supplier *u*;

Issued by:	Elaine D. Robinson, Dir. Reg. Affairs	Effective:	<u>May 24, 2008</u>
Issued on.	March 24, 2008	5 1 N 504 000	022 towned
	with order of the Federal Energy Regulatory Commi	ssion. Docket No. EK04-230-	UZ5. 1850.00
July 20, 2006.	116 FERC ¶ 61.043 (2006).		

New York Independent System Operator, Inc.FirstSecond Revised Sheet No. 486.03FERC Electric TariffSuperseding OriginalFirst Revised Sheet No. 486.03Original Volume No. 2Attachment J

LL_{iu} = max (RTSen_{iu}, min(AEI_{iu},EOP_{iu})), but not more than DASen_{hu} if RTSen_{iu} < EOP_{iu} and min (RTSen_{iu}, max(AEI_{iu},EOP_{iu})), but not more than DASen_{hu} otherwise;

 $UL_{iu} = \min (RTSen_{iu}, \max(AEI_{iu}, EOP_{iu}))$ but not less than $DASen_{hu}$ if $RTSen_{iu} \ge EOP_{iu} \ge DASen_{hu}$ and max ($RTSen_{iu}, \min(AEI_{iu}, EOP_{iu})$) but not less than $DASen_{hu}$ otherwise;

 EOP_{iu} = the Economic Operating Point of Supplier *u* in interval *i* calculated without regard to ramp rates;

Seconds_{*i*} = number of seconds in interval i

<u>RPIiu = the Reserves Performance Index in interval i for Demand Side Resource u. The Reserves</u> <u>Performance Index is calculated pursuant to Section 3.6 of Rate Schedule 4 of this Services</u> Tariff.

Issued by: William J. Museler, President Elaine D. Robinson. Dir. Reg. Affairs Effective: February Max 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-02300, et. al., issued February 11July 20, 20046, 1016 FERC ¶ 61,111043 (20046).

Second<u>Third</u> Revised Sheet No. 486A Superseding First<u>Second</u> Revised Sheet No. 486A

3.04 Other Provisions

The AGC Base Point Signal for a GeneratorSupplier that is not providing Regulation Service during a given RTD interval shall be initialized by either: (i) the Generator's Supplier's last AGC Base Point Signal from the prior RTD interval; or (ii) the Generator'sSupplier's actual metered generation or calculated Demand Reduction at the time new RTD Base Point Signals are received by the ISO's AGC software, whichever is closer to the Generator'sSupplier's new RTD Base Point Signal. AGC Base Point Signals for a Generator Supplier that is not providing Regulation Service will ramp evenly over the course of the RTD interval starting at the initialized AGC Base Point Signal and ending at the level of its new RTD Base Point Signal. AGC Base Point Signals for Generators Suppliers providing Regulation Service during a given RTD interval are determined based on the ISO's need to minimize the NYCA area control error.

Issued by: William J. Museler, President Elaine D. Robinson, Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-02300, et. el., issued February 11July 20, 20046, 1016 FERC ¶ 61,111043 (20046).

Superseding FirstSecond Revised Sheet No. 487

4.0 Exception for Suppliers-Generators Lagging Behind RTD Base Point Signals

An otherwise eligible <u>Supplier Generator</u> that does not respond to, or that lags behind, the ISO's RTD Base Point Signals in a given interval, as determined below, shall not be eligible for Day-Ahead Margin Assurance Payments for that interval. If such a <u>Supplier's Generator's</u> average Actual Energy Injection in an RTD interval (*i.e.*, its Actual Energy Injections averaged over the RTD interval) is less than or equal to its penalty limit for under-generation value for that interval, as computed below, it shall not be eligible for Day-Ahead Margin Assurance Payments for that interval.

The penalty limit for under-generation value is the tolerance described in Section 1.0 of Rate Schedule 3-A of this ISO Services Tariff, which is used in the calculation of the persistent under-generation charge applicable to <u>Suppliers Generators</u> that are not providing Regulation Service.

Issued by:William J. Muscler, President Elaine D. Robinson, Dir. Reg. AffairsEffective: February May 124, 20085Issued on:January March 248, 20085Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-02300, et. al.,issued February 11July 20, 20046, 1016 FERC [61,111043 (20046).

Superseding FirstSecond Revised Sheet No. 488

5.0 Rules Applicable to Generator Supplier Derates

Generators-Suppliers that request and are granted a derate of their real-time Operating Capacity, but that are otherwise eligible to receive Day-Ahead Margin Assurance Payments may receive a payment up to a Capacity level consistent with their revised Emergency Upper Operating Limit or Normal Upper Operating Limit, whichever is applicable. If a <u>Generator's Supplier's</u>

Issued by: William J. Museler, President Elaine D. Robinson. Dir. Reg. Affairs Effective: February May 124, 20085 Issued on: January March 248, 20085 Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-02300, et. al., issued February 11July 20, 20046, 1916 FERC ¶ 61,111043 (20046).

If, at any time during the regular monthly billing cycle, the amount owed to the ISO by a Virtual Transaction Customer as a result of Virtual Transactions reaches one hundred (100%) percent of the credit support provided by the Virtual Transaction Customer to support its Virtual Transactions, the ISO may cancel any pending Day-Ahead bids before they are accepted and may immediately suspend the Virtual Transaction Customer's authorization to engage in Virtual Transactions until the Virtual Transaction Customer makes payment or provides its requisite amount of credit support pursuant to this Article VI.

VII. Financial Assurance for Demand Side Resources offering Ancillary Services

A. Amount of Credit Support. As is described in greater detail below, the amount of credit support required to be supplied by Demand Side Resources offering ancillary services, as described in this Subsection VII, 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.

Demand Side Resources eligible to offer only Operating Reserves will be required to meet the Credit Support requirements for Operating Reserves Suppliers, as provided in this Subsection VII. Resources located East of Central-East shall pay the Eastern reserves

<u>New York Independent System Operator. Inc.</u> <u>FERC Electric Tariff</u> <u>Original Volume No. 2</u> <u>Attachment K</u>

credit support requirement and Resources located West of Central-East shall pay the

Western reserves credit support requirement.

Demand Side Resources eligible to offer only Regulation Service or Operating

Reserves and Regulation Service will be required to meet only the credit support

requirement for Regulation Suppliers, as provided in this Subsection VII.

B. Credit Support Requirements for Operating Reserves Suppliers: The credit

required in each two-month period for Demand Side Resources offering Operating

Reserves shall be equal to 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
<u>The amount of</u> <u>Western reserves</u> <u>credit support</u> (\$/MW/day) for <u>each two-month</u> <u>period</u>	Ξ	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

Issued by:	Elaine D. Robinson, Dir. Reg. Affairs	Effective:	<u>May 24, 2008</u>
Issued on:	March 24, 2008		
Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-023, issued			
July 20, 2006, 1	16 FERC ¶ 61.043 (2006).		

Two-month periods:

Attachment K

= January and February
March and April
May and June
July and August
September and October
November and December
= Hourly, time-weighted Market
Clearing Price for Spinning
 Reserves
= The hourly differential at the 97^{th}
percentile of all hourly
differentials between the Day-
Ahead and Real-Time MCP _{SRb} for
Eastern Spinning Reserves for
hours in the two-month period of
the previous year when the Real-
Time MCP _{SRb} for Eastern
Spinning Reserves exceeded the
Day-Ahead MCP _{SRb} for Eastern
Spinning Reserves
= The hourly differential at the 97 th
percentile of all hourly

MCP_{SRh}

Eastern Price Differential

Western Price Differential

Dercentine of an nourry
differentials between the Dav-
Ahead and Real-Time MCPssRh for
Western Spinning Reserves for
hours in the two-month period of
the previous year when the Real-
Time MCP _{SRb} for Western
Spinning Reserves exceeded the
Dav-Ahead MCP _{SRh} for Western
Spinning Reserves

Reserve Activations

=	The number of reserve activations
	at the 97 th percentile of daily
	reserve activations for days in each
	two month period of the previous
	vear that had reserve activations.

Issued by:Elaine D. Robinson, Dir. Reg. AffairsEffective:May 24, 2008Issued on:March 24, 2008Filed to comply with order of the Federal Energy Regulatory Commission. Docket No. ER04-230-023, issuedJuly 20, 2006, 116 FERC ¶ 61.043 (2006).

Original Sheet No. 506.03

<u>New York Independent System Operator, Inc.</u> <u>FERC Electric Tariff</u> <u>Original Volume No. 2</u> <u>Attachment K</u>

<u>C.</u> <u>Credit Support Requirements for Regulation Service Providers: The credit</u> required in each two-month period for Demand Side Resources offering Regulation Service shall be equal to 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:

<u>The amount of</u> <u>regulation credit</u> <u>support</u> (\$/MW/day) for <u>each two-month</u> <u>period</u>	Ξ	Price Differential for the two-month period in the year * 24 hours	
<u>Two-month period</u>	<u>ls:</u>	January and February March and April May and June July and August September and October November and Decembe	<u>r</u>
MCP _{Rerh}		Hourly, time-weighted M Clearing Price for Regula Services	
Price Differential		The hourly differential at percentile of all hourly differentials between the J Ahead and Hour-Ahead M for hours in the two-month of the previous year when Real-Time MCP exceeded Day-Ahead MCP	Dav- CP _{Reph} period the
Issued on: March 24, 20	he Federal Energy Regulator	Effective: cv Commission. Docket No. ER04-230-	<u>Mav 24, 2008</u> 023. issued

D. Acceptable Credit Support. Demand Side Resources offering Ancillary
Services shall provide required credit support using either Unsecured Credit (pursuant to
Article IV of this Attachment K), or any of the forms of Acceptable Collateral (pursuant
to section V.A of this Attachment K), or any combination thereof.

E. Suspension.

1. If, at any time during the regular monthly billing cycle, the amount owed to the ISO by a Demand Side Resource offering Ancillary Services as a result of its market activity reaches fifty (50%) percent of the credit support provided by the Demand Side Resource offering Ancillary Services to support its market transactions, the ISO shall attempt to contact the Demand Side Resource to request either payment or additional credit support in the amount then owed by the Demand Side Resource to support its market transactions.

2. If the day after the ISO's request described above falls on a business day and the Demand Side Resource fails to make payment or provide additional credit support as described above by 4:00 p.m. on the day after the ISO's request described above, the ISO may immediately suspend the Demand Side Resource's authorization to engage in market transactions until payment or provision of its required amount of credit support using either Unsecured Credit (pursuant to

Issued by:Elaine D. Robinson, Dir. Reg. AffairsEffective:May 24, 2008Issued on:March 24, 2008Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-023, issuedJuly 20, 2006, 116 FERC ¶ 61.043 (2006).

Article IV of this Attachment K), or any of the forms of Acceptable Collateral (pursuant to section V.A of this Attachment K), or any combination thereof is provided as required by this Article VII.

3. If the day after the ISO's request does not fall on a business day, the ISO may issue a demand for credit support and immediately suspend the Demand Side Resource's authorization to engage in market transactions until the Demand Side Resource makes payment or provides its requisite amount of credit support pursuant to this Article VII.

4. If, at any time during the regular monthly billing cycle, the amount owed to the ISO by a Demand Side Resource as a result of its market transactions reaches one hundred (100%) percent of the credit support provided by the Demand Side Resource to support its market transactions, the ISO may cancel any pending Day-Ahead bids and may immediately suspend the Demand Side Resource's authorization to engage in market transactions until the Demand Side Resource makes payment or provides its requisite amount of credit support pursuant to this Article VI.

Issued by:Elaine D. Robinson. Dir. Reg. AffairsEffective:May 24. 2008Issued on:March 24. 2008Filed to comply with order of the Federal Energy Regulatory Commission. Docket No. ER04-230-023. issuedJuly 20. 2006. 116 FERC ¶ 61.043 (2006).

Original Sheet No. 506.07

VIII. Financial Assurance for Wholesale Transmission Service Charges

A. Application of Security. In the event a Transmission Owner declares a certain WTSC overdue and satisfies the requirements specified in Section VII.B below, the NYISO will reimburse the Transmission Owner for part, or all, of the unpaid amount.

Issued by:	Elaine D. Robinson, Dir. Reg. Affairs	Effective:	<u>May 24, 2008</u>
Issued on:	<u>March 24. 2008</u>		
Filed to comply with order of the Federal Energy Regulatory Commission. Docket No. ER04-230-023, issued			
<u>July 20. 2006. 116 FERC ¶ 61.043 (2006).</u>			