

Revised Tariff Sheets – 15 Minute Scheduling – 09/12/05 MSWG  
Draft – For Discussion Only

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

First Revised Sheet No. 44A  
Superseding Original Sheet No. 44A

**2.81a ISO-Committed Fixed**

In the Day-Ahead Market, A bidding mode in which a Generator requests that the ISO commit and schedule it. In the Real-Time Market, a bidding mode in which a Generator, with ISO approval, in the Day-Ahead Market requests that the ISO schedule it no more frequently than every 15 minutes, and A Generator scheduled in the Day-Ahead Market as ISO-Committed Fixed will participates as a Self-Committed Fixed Generator in the Real-Time Market unless it changes bidding mode, with ISO approval, to participate as an ISO-Committed Fixed Generator. Generators that do not have the communications systems, operational control mechanisms or hardware to be able to respond to five minute dispatch basepoints are eligible to bid as ISO-Committed Fixed.

**2.81b ISO-Committed Flexible**

A bidding mode in which a Dispatchable Generator or Demand Side Resource follows Base Point Signals and is committed by the ISO.

Issued by: ~~William J. Museler~~, President  
Issued on: January 28, 2005

Effective: February 1, 2005

Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-000, et. al., issued February 11, 2004, 106 FERC ¶ 61,111 (2004).

Revised Tariff Sheets – 15 Minute Scheduling – 09/12/05 MSWG  
Draft – For Discussion Only

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

First Revised Sheet No. 97.00A  
Superseding Original Sheet No. 97.00A

parameters in RTC than they did Day-Ahead. ISO-Committed Fixed Generators, ISO-Committed Flexible Generators, and Self-Committed Flexible Generators may not increase their Day-Ahead Incremental Energy Bids that are applicable to any portion of their Capacity that was scheduled Day-Ahead, and may not increase their Minimum Generation Bids, or Start-Up Bids, for any hour in which they received a Day-Ahead Energy schedule. Bids to supply Energy or Ancillary Services shall be subject to the rules set forth in Section 4.2.2 above and in Attachment D to this ISO Services Tariff.

\_\_\_\_\_ Generators that did not submit a Day-Ahead Bid for a given hour may offer to be ISO-Committed Flexible, Self-Committed Flexible, ~~or~~ Self-Committed Fixed or, with ISO approval, as ISO-Committed Fixed in real-time. \_\_\_\_\_ Generators that submitted a Day-Ahead Bid but did not receive a Day-Ahead schedule for a given hour may change their bidding mode for that hour to be ISO-Committed Flexible, Self-Committed Flexible, ~~or~~ Self-Committed Fixed or, with ISO approval, ISO-Committed Fixed in real-time.

Generators that received a Day-Ahead schedule for a given hour may not change their bidding mode between Day-Ahead and real-time provided, however, that Generators that were scheduled Day-Ahead in Self-Committed Fixed mode may switch, with ISO approval, to ISO-Committed Fixed bidding mode in real-time. Generators that were scheduled Day-Ahead in ISO-Committed Fixed mode will be scheduled as Self-Committed Fixed in the Real-Time Market unless, with ISO approval, they change their bidding mode to ISO-Committed Fixed.

If a real time physical operating problem makes it impossible for a Generator to operate in the bidding mode in which it was scheduled Day-Ahead, should notify the NYISO. ~~subject to~~

Revised Tariff Sheets – 15 Minute Scheduling – 09/12/05 MSWG  
Draft – For Discussion Only

~~the following restrictions: (i) possible for them to bid in any other mode; (ii) Generators that were scheduled Day Ahead in Self-Committed Flexible mode may not switch to ISO-Committed Fixed or ISO-Committed Flexible mode and may only switch to Self-Committed Fixed mode if a real-time physical operating problem makes it impossible for them to bid in any other mode; (iii) Generators that were scheduled Day Ahead in~~

Issued by: William J. Museler, President  
Issued on: January 28, 2005

Effective: February 1, 2005

Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-000, et. al., issued February 11, 2004, 106 FERC ¶ 61,111 (2004).

Revised Tariff Sheets – 15 Minute Scheduling – 09/12/05 MSWG

Draft – For Discussion Only

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

~~Second~~Third Revised Sheet No. 97.00B  
Superseding ~~First~~Second Revised Sheet No. 97.00B

~~ISO-Committed Fixed mode may not switch to ISO-Committed Flexible or Self-Committed Flexible mode in real-time; and (iv) Generators that were scheduled Day-Ahead in Self-Committed Fixed mode may not switch to a different bidding mode in real-time.~~

Generators may not submit separate Operating Reserves Availability Bids in real-time and will instead automatically be assigned a real-time Operating Reserves Availability Bid of zero for the amount of Operating Reserves they are capable of providing in light of their response rate (as determined under Rate Schedule 4).

## **2. Bids Associated with Internal and External Bilateral Transactions**

Customers may seek to modify Bilateral Transactions that were previously scheduled Day-Ahead or propose new Bilateral Transactions, including External Transactions, for economic evaluation by RTC. Bids associated with Internal Bilateral Transactions shall be subject to the rules set forth above in Section 4.2.2(G).

Except as noted in Attachment N to this ISO Services Tariff, Sink Price Cap Bids or Decremental Bids for External Transactions may be submitted into RTC up to seventy five minutes before the hour in which the External Transaction would flow. External Transaction Bids must have a one hour duration, must start and stop on the hour, and must have constant magnitude for the hour. Intra-hour schedule changes, or Bid modifications, associated with External Transactions will not be accommodated.

## **3. Self-Commitment Requests**

Self-Committed Flexible Resources must provide the ISO with schedules of their expected minimum operating points in quarter hour increments. Self-Committed Fixed Resources must provide their expected actual operating points in quarter hour increments or, with ISO approval, bid as an ISO-Committed Fixed Generator.

Revised Tariff Sheets – 15 Minute Scheduling – 09/12/05 MSWG  
Draft – For Discussion Only

Issued on: ~~March~~June 25, 2005

Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER05-727-000, issued May 24, 2005, 111 FERC ¶ 61,238 (2005).

Revised Tariff Sheets – 15 Minute Scheduling – 09/12/05 MSWG  
Draft – For Discussion Only

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

~~First~~Second Revised Sheet No. 97.00C  
Superseding ~~Original~~First Revised Sheet No. 97.00C

**4. ISO-Committed Fixed**

Generators wishing to use the ISO-Committed Fixed bidding mode in the Real-Time Market shall request ISO approval pursuant to procedures which shall be published by the ISO. Real-Time Bids by ISO-Committed Fixed Generators shall identify variable Energy price Bids, consisting of up to eleven monotonically increasing, constant cost incremental Energy steps, and other parameters described in Attachment D of this ISO Services Tariff and the ISO Procedures. Real-Time Bids by ISO-Committed Fixed Generators shall also include Minimum Generation Bids and hourly Start-Up Bids. ISO-Committed Fixed Bids shall specify that the Generator is offering to be ISO-Committed Fixed.

RTC shall schedule ISO-Committed Fixed Generators.

**45. Real-Time Demand Reductions**

Demand Reduction Providers shall be permitted to submit Real-Time Energy Bids to the extent that the ISO's software can support their participation in the real-time Energy market and rules are established to govern their real-time bidding options.

**C. External Transaction Scheduling**

RTC<sub>15</sub> will schedule External Transactions on an hour-ahead basis as part of its development of a co-optimized least-bid cost real-time commitment. RTC will alert the ISO when it appears that scheduled External Transactions need to be reduced for reliability reasons but will not automatically Curtail them. Curtailment decisions will be made by the ISO, guided by the information that RTC provides, pursuant to the rules established by Attachment B of this ISO Services Tariff and the ISO Procedures.



Revised Tariff Sheets – 15 Minute Scheduling – 09/12/05 MSWG  
Draft – For Discussion Only

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

First Revised Sheet No. 97.00D  
Superseding Original Sheet No. 97.00D

- (i) Commit Resources with 10-minute start-up times that should be synchronized by the time that the results of the next RTC run are posted so that they will be synchronized and running at their minimum generation levels by that time;
- (ii) Commit Resources with 30-minute start-up times that should be synchronized by the time that the results of the RTC run following the next RTC run are posted so that they will be synchronized and running at their minimum generation levels by that time;
- (iii) De-commit Resources that should be disconnected from the network by the time that the results of the next RTC run are posted so that they will be disconnected by that time;
- (iv) Issue advisory commitment and de-commitment guidance for periods more than thirty minutes in the future and advisory dispatch information; ~~and~~
- (v) Schedule Pre-Scheduled Transaction and economic External Transactions to run during the entirety of the next hour; and
- (vi) Schedule ISO-Committed Fixed Resources.

All subsequent RTC runs in the hour, i.e., RTC<sub>30</sub>, RTC<sub>45</sub>, and RTC<sub>00</sub> will begin executing at fifteen minutes before their designated posting times (for example, RTC<sub>30</sub> will begin in the fifteenth minute of the hour), and will take the following steps.

- (i) Commit Resources with ten-minute start-up times that should be synchronized by the time that the results of the next RTC run are posted so that they will be synchronized and running at that time;

Revised Tariff Sheets – 15 Minute Scheduling – 09/12/05 MSWG  
Draft – For Discussion Only

Issued by: William J. Museler, President

Effective: February 1, 2005

Issued on: January 28, 2005

Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-000, et. al., issued February 11, 2004, 106 FERC ¶ 61,111 (2004).

Revised Tariff Sheets – 15 Minute Scheduling – 09/12/05 MSWG  
Draft – For Discussion Only

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

First Revised Sheet No. 97.00E  
Superseding Original Sheet No. 97.00E

- (ii) Commit Resources with thirty-minute start-up times that should be synchronized by the time that the results of the RTC run following the next RTC run are posted so that they will be synchronized and running at that time;
- (iii) De-commit Resources that should be disconnected from the network by the time that the results of the next RTC run are posted so that they will be disconnected at that time;
- (iv) Issue advisory commitment, de-commitment, and dispatching guidance for the period from thirty minutes in the future until the end of the RTC co-optimization period; ~~and~~
- (v) Either reaffirm that the External Transactions scheduled by RTC<sub>15</sub> to flow in the next hour should flow, or inform the ISO that External Transactions may need to be reduced; and
- (vi) Schedule ISO-Committed Fixed Resources.

**E. External Transaction Settlements**

RTC<sub>15</sub> will calculate the Real-Time LBMP for all External Transactions if constraints at the interface associated with that External Transaction are binding. In addition, RTC<sub>15</sub> will calculate Real-Time LBMPs at Proxy Generator Buses for any hour in which: (i) proposed economic Transactions over the Interface between the NYCA and the External Control Area that the Proxy Generator Bus is associated with would exceed the Available Transfer Capability for that Interface; (ii) proposed interchange schedule changes pertaining to the NYCA as a whole

Revised Tariff Sheets – 15 Minute Scheduling – 09/12/05 MSWG  
Draft – For Discussion Only

Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-000, et. al., issued February 11, 2004, 106 FERC ¶ 61,111 (2004).

Revised Tariff Sheets – 15 Minute Scheduling – 09/12/05 MSWG  
Draft – For Discussion Only

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

Fourth Revised Sheet No. 106  
Superseding Third Revised Sheet No. 106

the sum of the Minimum Generation Bid, Start-Up Bid and the net Energy Bid Price over the twenty-four (24) hour day of such a Supplier exceeds its Day-Ahead LBMP revenue over the twenty-four (24) hour day, then that Supplier's Day-Ahead LBMP revenue may be augmented by a supplemental Day-Ahead Bid Production Cost guarantee payment. However, the amount of the shortfall of such a Supplier will be compared to the margin that the Supplier receives from being scheduled to provide Ancillary Services that it can provide only if scheduled to operate. The Supplier's Ancillary Service margin is equal to the revenue it would have received for providing these Ancillary Services prior to any reductions based on a failure to provide these services less its Bid to provide these services, if any. If, and only to the extent that, the shortfall exceeds these Ancillary Service margins, the Supplier will receive a payment pursuant to the provisions of Attachment C to this ISO Services Tariff. Suppliers bidding on behalf of Resources that were not committed by the ISO to operate in a given Dispatch Day, but which continue to operate due to minimum run time Constraints, shall not receive such a supplemental payment.

In addition, the ISO shall: (i) use ~~RTD~~ Real-Time Market prices and schedules to calculate and pay real-time Bid Production Cost guarantee payments to ISO-Committed Flexible Generators and to Customers that schedule imports, and, to the extent that the ISO's software can support their provision of non-synchronized Operating Reserves, Demand Side Resources, that are ISO-committed during the entire Dispatch Day; (ii) use RTD prices and schedules to calculate and pay real-time Bid Production Cost guarantee

Issued by: William J. Museler, President  
Issued on: January 28, 2005

Effective: February 1, 2005

Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-000, *et. al.*, issued February 11, 2004, 106 FERC ¶ 61,111 (2004).

Revised Tariff Sheets – 15 Minute Scheduling – 09/12/05 MSWG  
Draft – For Discussion Only

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

Third Revised Sheet No. 106.01  
Superseding Second Revised Sheet No. 106.01

payments to any Self-Committed Flexible Generator if its self-committed minimum generation level does not exceed its Day-Ahead schedule at any point during the Dispatch Day; and (iii) use RTD prices and schedules to calculate and pay real-time Bid Production Cost guarantee payments for Minimum Generation Bids and Start-Up Bids to ISO-Committed Fixed Generators.

All such payments shall be calculated in the manner described in Attachment C to this ISO Services Tariff. No such payments shall be made to Customers that schedule Exports or Wheels-Through. Except as expressly noted in (ii) above, Self-Committed Flexible and Self-Committed Fixed Resources shall not be eligible for these Bid Production Cost guarantee payments.

An ISO-Committed Flexible Generator that is eligible to receive a Day-Ahead Bid Production Cost guarantee payment but that then self-commits in certain hours, thus becoming ineligible for a real-time Bid Production Cost guarantee payment, shall not be disqualified from receiving a Day-Ahead Bid Production Cost guarantee payment.

Any Supplier 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, for the duration of the large event reserve pickup or maximum generation pickup and the three RTD intervals following the termination 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, President  
Issued on: January 28, 2005

Effective: February 1, 2005

Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-000, *et. al.*, issued February 11, 2004, 106 FERC ¶ 61,111 (2004).

Revised Tariff Sheets – 15 Minute Scheduling – 09/12/05 MSWG  
Draft – For Discussion Only

New York Independent System Operator, Inc.      ~~First-Second~~ Revised Sheet No. 331.00f  
FERC Electric Tariff                              Superseding ~~Original-First Revised~~ Sheet No. 331.00f  
Original Volume No. 2  
Attachment B

When setting physical base points for Self-Committed Fixed Generators ~~and ISO-Committed Fixed~~ in any time point, the ISO shall consider the feasibility of the Resource reaching the output levels that it specified in its self-commitment request for each time point in the RTD run given: (A) its metered output at the time that the run was initialized; and (B) its response rate. When setting physical base points for ISO-Committed Fixed Generators in any time point, the ISO shall consider the feasibility of the Resource reaching the output levels scheduled for it by RTC for each time point in the RTD run given: (A) its metered output at the time that the run was initialized; and (B) its response rate.

The RTD Base Point Signals sent to ~~ISO-Committed Fixed and~~ Self-Committed Fixed Generators shall follow the quarter hour operating schedules that those Generators submitted in their real-time self-commitment requests, regardless of their actual performance. The RTD Base Point Signals sent to ISO-Committed Fixed Generators shall follow the quarter hour operating schedules established for those Generators by RTC, regardless of their actual performance. To the extent possible, the ISO shall honor the response rates specified by such Generators when establishing RTD Base Point Signals. If ~~such~~ a Self-Committed Fixed Generator's operating schedule is not feasible based on its real-time self-commitment requests then its RTD Base Point Signals shall be determined using a response rate consistent with the operating schedule changes.

**(ii) The Second Pass**

Revised Tariff Sheets – 15 Minute Scheduling – 09/12/05 MSWG  
Draft – For Discussion Only

The second Real-Time Dispatch pass consists of a least bid cost, multi-period, co-optimized dispatch for Energy, Regulation Service, and Operating Reserves that treats all Fixed Block Units that are committed by RTC, all Resources meeting minimum generation levels as determined by the ISO and capable of starting in ten minutes that have not been committed by RTC and all units or that are otherwise instructed to be online or remain online by the ISO, as flexible (i.e., able to be dispatched anywhere between zero (0) MW and their UOL<sub>N</sub> or UOL<sub>E</sub>, whichever is applicable),

Issued by: ~~William J. Museler~~ Mark S. Lynch, President      Effective: ~~February~~ July 18, 2005  
Issued on: ~~June~~ January 28, 2005  
Filed to comply with order of the Federal Energy Regulatory Commission, Docket No. ER04-230-000, et. al., issued February 11, 2004, 106 FERC ¶ 61,111 (2004).