

Subject: 15-Minute Scheduling of Internal Generation

NYISO-qualified non-flexible generators have a new option in the Real-Time Market; they can bid economically using the *ISO-Committed Fixed* mode, and if their bids are accepted they will receive a market-based schedule that is fixed for each 15-minute segment of the hour. Market Participants using this option must convert to *ISO-Committed Fixed* their Day-Ahead Market bids (if any), that have rolled into the Real-time Market in the default *Self-Committed Fixed* mode.

Details:

Introduction

Generators (units) who qualify may choose to have their Real-Time schedule calculated and adjusted by the ISO every 15 minutes. In this Real-Time operating mode, designated *ISO-Committed Fixed*, the generator's bid will be evaluated by Real-Time Commitment (RTC) so that its schedule will better follow Real-Time energy prices. Schedules will be determined by RTC in 15-minute blocks (nominally), and will be honored in the Real-Time Dispatch (RTD).

Generator Qualification

A Market Participant must first qualify its unit(s) with the NYISO via its Customer Representative, allowing 3 business days for review and approval. For operational reasons, units capable of either being dispatched every 5 minutes or providing regulation are not eligible. If the unit is approved, its 15-minute scheduling parameter, also known as a "qualified-to-bid" flag, will be set to Y (Yes) by the Customer Representative in the NYISO Market Information System (MIS). The term used in this Technical Bulletin for such approved and flagged units is "15-minute generators (units)".

Bidding and Scheduling Rules

It follows from the qualification constraints mentioned above that for **both** the Day-Ahead (DAM) and Real-Time (RT) Markets, 15-minute generators must submit **either** *ISO-Committed Fixed* or *Self-Committed Fixed* bids. In the RT Market these units may still self-schedule in 15-minute blocks using the *Self-Committed Fixed* mode, but to be scheduled economically by the NYISO they must bid in, and be accepted, as *ISO-Committed Fixed*.

Again, *ISO-Committed Flexible* and *Self-Committed Flexible* bids will **not** pass MIS bid validation in either market for 15-minute units.

No DAM schedule is necessary to bid in the RT Market for 15-minute generators.

The table below summarizes the allowed combinations of DAM and subsequent RT bids:

Day-Ahead Mkt 15m gens.	Real-Time Market - 15-minute generators			
	ISO-Committed Flexible	Self-Committed Flexible	Self-Committed Fixed	ISO-Committed Fixed (15 minute qualified)
ISO-Committed Fixed	No	No	Yes	Yes - see Note below
Self-Committed Fixed	No	No	Yes	Yes -see Note below
15m units with No Day-Ahead Schedule	No	No	Yes	Yes

The purpose of this "Technical Bulletin" is to facilitate participation in the NYISO by communicating various NYISO concepts, techniques, and processes to Market Participants before they can be formally documented in a NYISO manual. The information contained in this bulletin is subject to change as a result of a revision to the ISO Tariffs or a subsequent filed tariff with the FERC.

Note:

Upon posting of the Day-Ahead market, the Day-Ahead schedule for each 15-minute generator (like other fixed generators) is used to pre-populate (initialize) its Real-Time bids in the *Self-Committed Fixed* mode, no matter which of the two *fixed* modes is used in the DAM.

Therefore:

If a 15-minute generator with a DAM schedule intends to bid in RT as *ISO-Committed Fixed*, it **must**, for each hour desired, convert its *Self-Committed Fixed* RT bids in the MIS using the radio buttons in the “Unit Operations” box on the Generator Bid screen.

Consistent with all RT bidding rules, this may be done from when the DAM schedule has posted until 75 minutes before the operating hour.

This conversion option is available only to 15-minute generators and will be subject to the standard RT Market validation rules for adjusting DAM bids that have rolled into the RT market::

1. The Minimum Generation MW must be equal to bid Min Gen MW from the accepted DAM bid.
2. The Upper Operating Limit-Normal (UOLn) must be greater than or equal to the UOLn from the accepted DAM bid.
3. The UOLn must be greater than or equal to the sum of DAM accepted energy, reserves, and regulation schedules.¹
4. The Upper Operating Limit-Emergency (UOLe) must be greater than or equal to the sum of the DAM accepted energy, reserves, and regulation schedules.¹
5. The bid dispatch dollars (points 1 –11) must be less than or equal to the DAM energy bid for all MW values up to and including the DAM energy schedule.
6. The RT Startup Cost must be less than or equal to the accepted DAM bid startup cost.
7. The RT bid Minimum Generation Dollars must be less than or equal to the accepted DAM bid minimum generation cost.
8. RT bids must not have any dollar value, including \$0, in the reserve or regulation fields. Only null dollar amounts are acceptable. In other words, no reserve or regulation will be awarded to 15-minute scheduled units.

Note: Please see **TB #134** for bid rules on generator operating modes for those units **not** qualified to bid 15-minute scheduling.

Settlement

15-minute generators that operate in Real-Time as *ISO-Committed Fixed* will settle deviations from Day-Ahead schedules at RTD prices, even though the Real-Time schedules for these generators are determined by RTC. 15-minute generators started or stopped by RTC in Real-Time are eligible for a Real-Time BPCG for start-up costs and minimum generation costs. 15-minute generators receive no Real-Time BPCG for energy, nor are they eligible for Day Ahead Margin Preservation (DAMAP). 15-minute generators are subject to penalties for excessive under-generation and are subject to non-payment for excess over-generation.

¹ 15-minute generators will not have reserve and regulation schedules

Process Summary Graph

