

# TCC Balance-of-Period Project Training

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**Training WebEx:**

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# Agenda

- **Project Overview**
- **Transmission Congestion Contracts (TCC) Automated Market System (AMS) Changes**
  - Screen and bid/offer changes
  - Report changes
- **Market Trials participation**
- **Next Steps**
- **Additional Information Available**

# Project Overview

# Purpose and Benefits

- **TCC Balance-of-Period (BoP) project is intended to replace current monthly Reconfiguration Auction structure**
  - Implementing new monthly TCC BoP auction structure
- **TCC BoP auction structure offers increased flexibility:**
  - Provides ability to reconfigure TCCs for the remaining months within a Capability Period
    - Market Participants (MPs) can purchase and sell TCCs for all remaining months of a given Capability Period
    - MPs can adjust congestion hedges based on fluctuations and trends in the market

# Purpose and Benefits, cont'd

- **Requires MPs to hold collateral only for months remaining in which they own TCCs**
  - Recalculation of TCC collateral holding will occur on monthly basis
  - New credit calculation methodology more accurately assesses risk
- **Newly added holding requirement detail in Credit Management System (CMS)**
  - Within a given round users can drill down to holding requirement at the TCC level
    - Providing more insight into overall holding requirement
    - Aiding in estimating projected requirements

# Application Changes

- TCC AMS:
  - Changes to multiple screens
  - Changes to bidding and offering
  - Changes to data reporting



The screenshot shows the login interface for the TCC Market. At the top, there is a blue header bar with the NYISO logo on the left, which includes the text "NEW YORK INDEPENDENT SYSTEM OPERATOR" and the tagline "Building The Energy Markets Of Tomorrow...Today". On the right side of the header, it says "TCC Market". Below the header, the main content area has a white background with a yellow border. It features the heading "Login Required" in bold. Below this, a message states: "You are attempting to access a protected resource. Please identify by entering your user ID and password". There are two input fields: "User ID:" and "Password:". Below the password field is a "Login" button.

# TCC AMS Screen and Bid/Offer Changes

# Screen Changes – ‘Rounds’

- Balance-of-Period Auction option added to filters

The screenshot displays the NYISO Rounds application interface. The 'Rounds' menu is highlighted in the left sidebar. The 'Round Type' filter is set to 'Balance-of-Period Auction', and its dropdown menu is open, showing the following options: All, Centralized TCC Auction, Monthly Reconfiguration Auction, Balance-of-Period Auction, Non-Historic Fixed Price TCC Allocation, and Non-Historic Fixed Price TCC Renewal. The main table displays a list of rounds with columns for Year, Season, Type, Round, Status, Submittal Period Start, Submittal Period End, Period Key, and View.

Year	Season	Type	Round	Status	Submittal Period Start	Submittal Period End	Period Key	View	
2017	Winter	Balance-of-Period Auction	April 2017	6	1 Invalidated	04/19/2017 00:00	04/19/2017 00:15	Period Key	
2017	Summer	Balance-of-Period Auction	May 2017	1	2 Finalized	05/02/2017 00:00	05/12/2017 01:00	Period Key	
2017	Summer	Balance-of-Period Auction	June 2017	2	1 In Progress	04/05/2017 00:00	04/30/2017 01:00	Period Key	View
2017	Summer	Balance-of-Period Auction	July 2017 - Decoupled	3	1 In Progress	04/14/2017 00:00	04/28/2017 00:00	Period Key	
2017	Summer	Balance-of-Period Auction	May 2017	1	1 Invalidated	04/04/2017 08:00	04/24/2017 17:00	Period Key	
2016	Winter	Balance-of-Period Auction	Winter 2017-2018 BoP Auction	11	1 Approved	04/24/2017 08:00	05/02/2017 11:00	Period Key	View



# Screen Changes – ‘Rounds: Period Key’

- Period Key for a Balance-of-Period round allows users to view period details

The screenshot displays the NYISO Rounds application interface. At the top, there is a navigation bar with links: Search, Offsetting, Queue, Misc Reports, Upload, and Log Out. Below this is a search filter section with dropdowns for Year (All), Season (All), Round Type (Balance-of-Period Auction), and Status (All), followed by a Search button. The main content area shows a table of rounds with columns: Year, Season, Type, and Round. A message above the table states "Search found 8 result(s) matching your criteria (hide results)".

Year	Season	Type	Round
2017	Winter	Balance-of-Period Auction	April 2017
2017	Winter	Balance-of-Period Auction	November 2017
2017	Winter	Balance-of-Period Auction	April 2017
2017	Summer	Balance-of-Period Auction	May 2017
2017	Summer	Balance-of-Period Auction	June 2017
2017	Summer	Balance-of-Period Auction	July 2017 - Decoupled
2017	Summer	Balance-of-Period Auction	May 2017
2016	Winter	Balance-of-Period Auction	Winter 2017-2018 BoP Auction

To the right of the rounds table is a "Period Key" modal window. It contains a table with columns: ID, Period Name, Start Date, and End Date. The table lists 10 periods from May 2017 to October 2017. To the right of this table is a "View" button. A yellow circle highlights the "View" button, and a yellow arrow points to it from the right. Below the "View" button is a "Reports" button.

ISO NEW YORK INDEPENDENT SYSTEM OPERATOR

# Screen Changes – ‘Set’ window

- Periods field will be active for auctions with more than one period
  - Required for multi-period auctions
  - MPs will initially be required to submit separate bids/offers for each period in which they seek to purchase/sell TCCs

Search Offsetting Queue Misc Reports Upload Log Out

Current Set: Approved Set

Set: Approved Set Show Set Period Key Withdraw

Round: Summer 2017 Balance-of-Period Auction May 2017 Version 1 Round ID: 1 Submittal Period: 03/08/2017 08:00 - 03/23/2017 17:00  
State: Approved at 03/16/2017 16:07:33. Exposure was and available collateral after approval was Last Submitted: 03/16/2017 16:07:31 by

Bids (hide bids)

Filter

Bid Code	MW	Max Price/MW	Total Price	POI	POW	Bundle	Periods	Edit	Delete
1	7	\$11.00	\$77.00	24008	24062	Bundle	5/6/7/8/9/10	Edit	Delete

Clear Selections Select All Delete Selected 0 item(s) selected

Offers (hide offers)

Filter

Offer Code	MW	Inventory ID	POI	POW	Min Price/MW	Periods	Edit	Delete
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Clear Selections Select All Delete Selected 0 item(s) selected

Set Total Offers: 0

Periods: All  
5 May 2017 05/01/2017-05/31/2017  
6 June 2017 06/01/2017-06/30/2017  
7 July 2017 07/01/2017-07/31/2017  
8 August 2017 08/01/2017-08/31/2017  
9 September 2017 09/01/2017-09/30/2017  
10 October 2017 10/01/2017-10/31/2017

OK Cancel

# Screen Changes – ‘Set’ window, cont’d

- Period ID filter allows MP to filter for a specific period
  - Period ID is whole number uniquely identifying periods within a given round

Search Offsetting Queue Misc Reports Upload Log Out

Current Set: Approved Set

Set: Approved Set Show Set Period Key Withdraw

Round: Summer 2017 Balance-of-Period Auction May 2017 Version 1 Round ID: 1 Submittal Period: 03/08/2017 08:00 - 03/23/2017 17:00  
State: Approved at 03/16/2017 16:07:33. Exposure was and available collateral after approval was Last Submitted: 03/16/2017 16:07:31 by

Bids (hide bids)

Filter

MW: Max Price/MW: Total Price: POI: POW: Bundle: All Period ID: Filter Clear

Bid Code	MW	Max Price/MW	Total Price	POI	POW	Bundle	Periods	Edit	Delete
1	7	\$11.00	\$77.00	24008	24062	Bundle	5;6;7;8;9;10	Edit	Delete

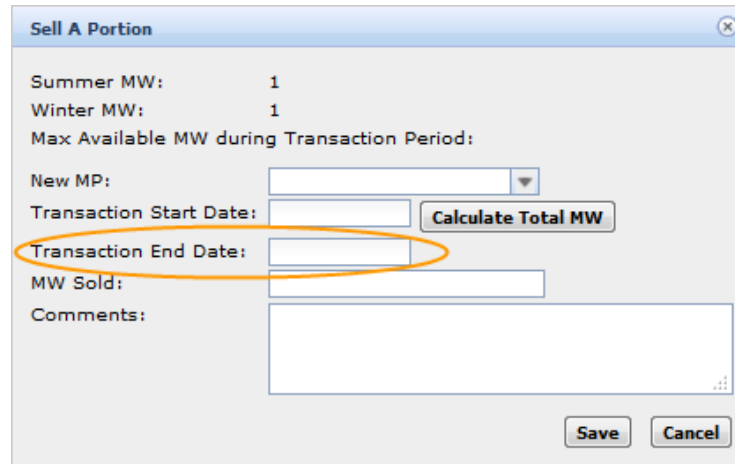
Clear Selections Select All Delete Selected | 0 item(s) selected

MW: Max Price/MW: Total Price: POI: POW: Bundle: Bundle Periods: Add Clear

# Screen Changes – ‘Inventory’

## ■ Sell a Portion Transaction

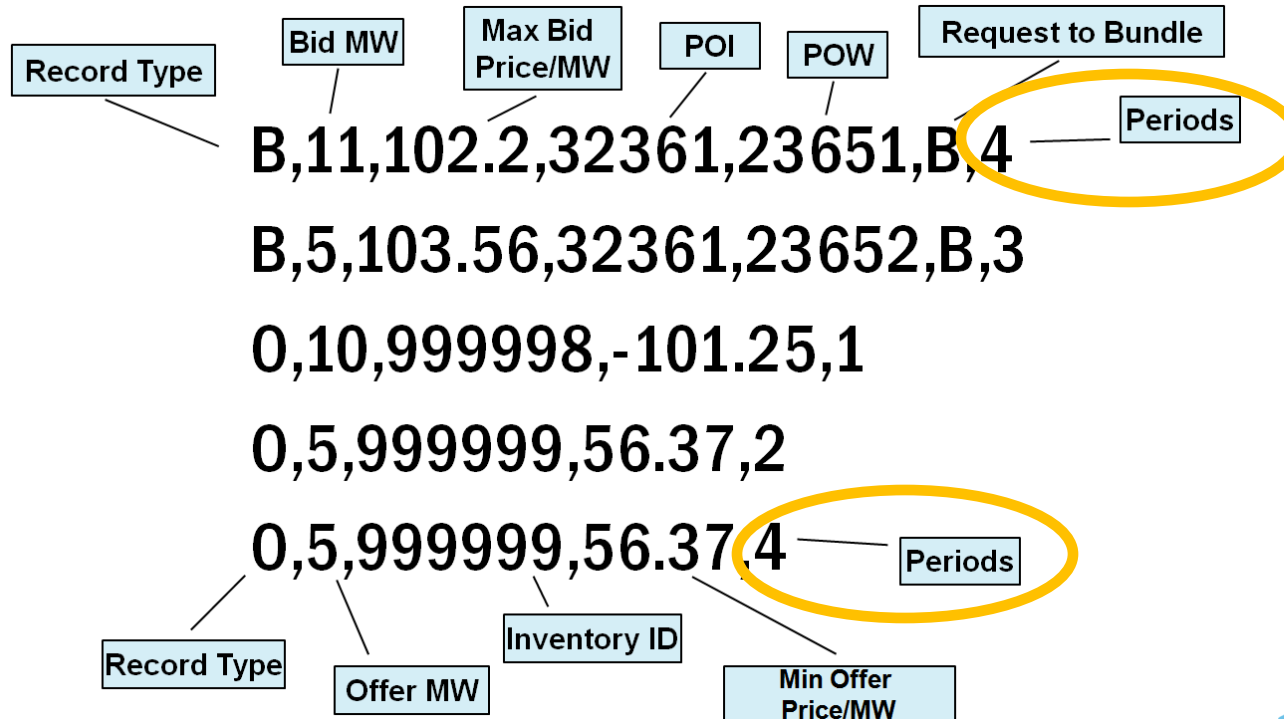
- Flexibility added to allow Sell a Portion transactions for monthly increments
- End date no longer restricted to end date of contract
  - Transaction end date is now required when entering a Sell a Portion transaction



The screenshot shows a 'Sell A Portion' dialog box with the following fields and controls:

- Summer MW: 1
- Winter MW: 1
- Max Available MW during Transaction Period:
- New MP: [Dropdown menu]
- Transaction Start Date: [Text field]
- Transaction End Date: [Text field, highlighted with an orange oval]
- MW Sold: [Text field]
- Comments: [Text area]
- Buttons: Calculate Total MW, Save, Cancel

# Upload File Changes – ‘Periods’ field added



# TCC AMS Report Changes

# Accessing TCC AMS Reports and Extracts

- Reports accessed in same way
  - File format CSV or XLSX
- Masked Bids and Offers Extract now available through the TCC AMS
  - Masked bid/offer data will also continue to be published on the NYISO website: <http://mis.nyiso.com/public/P-27list.htm>

Search Offsetting Queue Misc Reports Upload Log Out

**Lockout Period Active (more info)**

Year: All Season: All Round Type: All Status: All Search

Search found 302 result(s) matching your criteria (hide results)

Year	Season	Type	Round	Round ID	Version	Status	Submittal Period Start	Submittal Period End	Period Key	View
2017	Summer	Balance-of-Period Auction	May 2017	1	1	In Progress	03/08/2017 08:00	03/17/2017 17:00	Period Key	View
2016	Winter	Balance-of-Period Auction	November 2016	1	1	In Progress	03/01/2017 08:00	03/06/2017 17:00	Period Key	View
2016	Winter	Monthly Reconfiguration Auction	February 2017	2	1	In Progress	01/13/2017 08:00	01/17/2017 17:00	Period Key	View
2016	Winter	Monthly Reconfiguration Auction	January 2017	1	1	Finalized	12/09/2016 08:00	12/12/2016 17:00	Period Key	View
2016	Winter	Monthly Reconfiguration Auction	December 2016	12	1	Finalized	11/11/2016 08:00	11/14/2016 17:00	Period Key	View

☐ Clear Selections ☒ Select All | 1 item(s) selected

**Round Reports**

Format: XLSX Generate Clear

**View Awards Reports**

- ☐ All
- ☐ Nodal Prices
- ☐ Awards Summary
- ☐ Binding Constraints

**View Awards MP Reports**

- ☐ All
- ☐ MP Awards Summary
- ☐ MP Bundled Bid Awards
- ☐ MP Unbundled Bid Awards
- ☐ MP Sale Awards
- ☐ NHP/TCC Nomination/Renewal Awards

**Extracts**

- ☐ Masked Bids and Offers

# Report Changes - Nodal Price Report

- 5 new columns added to report

Nodal Price								
Summer 2016								
Balance-of-Period Auction								
May 2016								
Version #1								
Current Status - Approved								
Posted: February 16, 2017								



# Report Changes - Awards Summary Report

- 5 new columns added to report

Summary of Awards													
Summer 2016													
Balance-of-Period Auction													
May 2016													
Version #1													
Current Status - Approved													
Posted: February 14, 2017													
				Period Duration (# of months)	POI	POI Name	POI Zone	POW	POW Name	POW Zone	Award Type	TCCs Awarded	MCP (\$/TCC-Period Duration)
Period ID	Period Name	Start Date	End Date										
5 May 2016	05/01/2016	05/31/2016		1	23613 GINNA	GENESE	323628 MADISON COUNTY LFGE	MHK VL	Bid	5		\$35,450.00	
5 May 2016	05/01/2016	05/31/2016		1	23512 ARTHUR_KILL_2	N.Y.C.	23657 HUDSON AVE_GT_5	N.Y.C.	Bid	2		\$3,996.00	
5 May 2016	05/01/2016	05/31/2016		1	23528 NEG_PENN_ALLEGHNY	CENTRL	23818 FREEPORT_CT2	LONGIL	Offer	2		(\$14,036.00)	
5 May 2016	05/01/2016	05/31/2016		1	23543 KINTIGH	WEST	23514 ALLEGHENY COGEN	GENESE	Bid	2		\$16,558.00	
6 June 2016	06/01/2016	06/30/2016		1	23705 BARRETT_IC_2	LONGIL	24214 PPL_SHRM_GT4	LONGIL	Offer	4		\$5,521.00	
6 June 2016	06/01/2016	06/30/2016		1	23512 ARTHUR_KILL_2	N.Y.C.	23657 HUDSON AVE_GT_5	N.Y.C.	Bid	2		\$3,996.00	
6 June 2016	06/01/2016	06/30/2016		1	23528 NEG_PENN_ALLEGHNY	CENTRL	23818 FREEPORT_CT2	LONGIL	Bid	2		(\$14,036.00)	
7 July 2016	07/01/2016	07/31/2016		1	23570 LYONS_FALL_HYD	MHK VL	323688 BAYONEEC_CTG7	N.Y.C.	Bid	3		\$36,100.00	
7 July 2016	07/01/2016	07/31/2016		1	23512 ARTHUR_KILL_2	N.Y.C.	323685 BAYONEEC_CTG4	N.Y.C.	Bid	2		(\$44,150.00)	
7 July 2016	07/01/2016	07/31/2016		1	23528 NEG_PENN_ALLEGHNY	CENTRL	323563 PINELAWN_CC_1	LONGIL	Bid	2		(\$14,556.00)	
8 August 2016	08/01/2016	08/31/2016		1	23600 ST LAWRENCE	NORTH	323629 CHAUTAUQUA LFGE	WEST	Offer	3		\$4,016.00	
8 August 2016	08/01/2016	08/31/2016		1	23527 ADK_NYS_DAM	CAPITL	23704 BARRETT_IC_1	LONGIL	Bid	2		\$6,560.00	
8 August 2016	08/01/2016	08/31/2016		1	23540 HUDSON AVE_GT_4	N.Y.C.	23776 E_FISHKILL LBMP	MILLWD	Bid	2		\$34,696.68	
9 September 2016	09/01/2016	09/30/2016		1	323696 MARBLE_RIVER_WT_PWR	NORTH	23530 INDIAN POINT_2	MILLWD	Bid	3		(\$12.00)	
9 September 2016	09/01/2016	09/30/2016		1	23527 ADK_NYS_DAM	CAPITL	23704 BARRETT_IC_1	LONGIL	Offer	2		\$6,560.00	
9 September 2016	09/01/2016	09/30/2016		1	23540 HUDSON AVE_GT_4	N.Y.C.	23776 E_FISHKILL LBMP	MILLWD	Bid	2		\$34,696.68	
10 October 2016	10/01/2016	10/31/2016		1	323696 MARBLE_RIVER_WT_PWR	NORTH	23530 INDIAN POINT_2	MILLWD	Bid	3		(\$12.00)	
10 October 2016	10/01/2016	10/31/2016		1	23527 ADK_NYS_DAM	CAPITL	323564 BETHPAGE_CC_5	LONGIL	Offer	2		\$6,560.00	
10 October 2016	10/01/2016	10/31/2016		1	23540 HUDSON AVE_GT_4	N.Y.C.	323682 BAYONEEC_CTG1	N.Y.C.	Bid	2		(\$4,758.00)	

# Report Changes - Binding Constraints Report

- **Structure of the report has changed**
  - Previously split into 4 different sections
- **6 new columns added to report**

# Report Changes - Binding Constraints, cont'd

- Constraint Group ID is the same for a particular constraint
- Constraint Name and Shadow Price are not repeated for same constraint

Binding Constraints									
Summer 2016									
Balance-of-Period Auction									
May 2016									
Version #1									
Current Status - Approved									
Posted: February 16, 2016									
Period ID	Period Name	Start Date	End Date	Period Duration (# of months)	Constraint Name	Contingency Elements	Constraint Group ID	Shadow Price of Constraint \$/MW-Period Duration)	
5 May 2016		05/01/2016	05/31/2016	1	Central East Interface	BASE-CASE	28351	\$27,715.22	
5 May 2016		05/01/2016	05/31/2016	1	EGRDNCTY - VALLYSTR 138 kV (From Bus 335 - To Bus 438 - Circuit ID 1)	for stuck breaker contingency: FREEPORT - NEWBRIDGE 138 kV (From Bus 345 - To Bus 383 - Circuit ID 1)	28356	\$13,913.53	
5 May 2016		05/01/2016	05/31/2016	1	NEWBRIDGE 138/69.0 kV Transformer (From Bus 383 - To Bus 382 - Circuit ID 1)		28136		
5 May 2016		05/01/2016	05/31/2016	1	5018 Interconnection Scheduling Constraint	BASE-CASE	28369	(\$11,303.37)	
6 June 2016		06/01/2016	06/30/2016	1	Central East Interface	BASE-CASE	28203	\$24,421.59	
6 June 2016		06/01/2016	06/30/2016	1	DUNWODIE - SHORE_RD 345 kV (From Bus 253 - To Bus 420 - Circuit ID 1)	for loss of: SPRNBRK - EGRDNCTR 345 kV (From Bus 273 - To Bus 333 - Circuit ID 1)	28357	\$4,248.86	
6 June 2016		06/01/2016	06/30/2016	1	5018 Interconnection Scheduling Constraint	BASE-CASE	28295	(\$720.27)	
7 July 2016		07/01/2016	07/31/2016	1	Central East Interface	BASE-CASE	28277	\$14,502.60	
7 July 2016		07/01/2016	07/31/2016	1	GOWANUS 138 kV PAR (From Bus 135 - To Bus 134 - Circuit ID 1)	BASE-CASE	28137	\$4,630.47	
7 July 2016		07/01/2016	07/31/2016	1	DUNWODIE - SHORE_RD 345 kV (From Bus 253 - To Bus 420 - Circuit ID 1)	for loss of: SPRNBRK - EGRDNCTR 345 kV (From Bus 273 - To Bus 333 - Circuit ID 1)	28283	\$2,851.98	

# Report Changes - MP Awards Summary

- Report now aggregates awards based on the date range of the periods in the selected rounds

TCC Award Summary								
Market Participant:		MP_Name_1						
Start Date	End Date	Award Type	Number of Records	Total Number of Records Awarded	Number of Contracts Issued	\$ Initial Obligation	\$ Future Obligation	Total \$ Purchased/Sold
02/01/2017	02/28/2017	Bid	908	182	182	\$5,459,906.26	\$0.00	\$5,459,906.26
02/01/2017	02/28/2017	Offer	712	225		\$1,262,773.88	\$0.00	\$1,262,773.88
03/01/2017	03/31/2017	Bid	590	170	170	\$5,865,906.25	\$0.00	\$5,865,906.25
03/01/2017	03/31/2017	Offer	754	264		\$1,362,423.78	\$0.00	\$1,362,423.78
04/01/2017	04/30/2017	Bid	915	280	280	\$4,562,506.36	\$0.00	\$4,562,506.36
04/01/2017	04/30/2017	Offer	599	201		\$3,254,963.98	\$0.00	\$3,254,963.98
		Sub-total	02/01/2017	02/28/2017		\$4,197,132.38	\$0.00	\$4,197,132.38
		Sub-total	03/01/2017	03/31/2017		\$4,503,482.47	\$0.00	\$4,503,482.47
		Sub-total	04/01/2017	04/30/2017		\$1,307,542.38	\$0.00	\$1,307,542.38
				Total		\$10,008,157.23	\$0.00	\$10,008,157.23
Round Summary								
Season	Round Type	Year	Stage	Round	Class	Version	Round Status	Round Title
Winter	Balance-of-Period Auction	2016	b	0	2	1	Approved	February 2017
Report Created:		03/23/2017 15:16:42						

# Report Changes - MP Bundled Bid Awards

- New columns added to report
- Redundant/duplicate columns removed

MP Bundled Bid Awards Report																	
Period ID	Period Name	Start Date	End Date	P ID	MP Name	Bid Code	POI	POI Name	POI Zone	POW	POW Name	POW Zone	Bid MW	Awarded MW	Bid Price	Period MCP	Period Award \$
10 October 2016	10/01/2016	10/31/2016	10/31/2016	999	MP_NAME_1	31	61754	CENTRL	CENTRL	61758	HUD VL	HUD VL	50	50	\$12,388.80	\$12,327.58	\$616,379.00
10 October 2016	10/01/2016	10/31/2016	10/31/2016	999	MP_NAME_1	61	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$64.00	\$4,477.41	\$223,870.50
10 October 2016	10/01/2016	10/31/2016	10/31/2016	999	MP_NAME_1	62	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$64.00	\$4,477.41	\$223,870.50
9 September 2016	09/01/2016	09/30/2016	09/30/2016	999	MP_NAME_1	63	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$5,846.40	\$4,477.41	\$223,870.50
9 September 2016	09/01/2016	09/30/2016	09/30/2016	999	MP_NAME_1	64	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$5,637.60	\$4,477.41	\$223,870.50
9 September 2016	09/01/2016	09/30/2016	09/30/2016	999	MP_NAME_1	65	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$5,428.80	\$4,477.41	\$223,870.50
8 August 2016	08/01/2016	08/31/2016	08/31/2016	999	MP_NAME_1	66	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$5,220.00	\$4,477.41	\$223,870.50
8 August 2016	08/01/2016	08/31/2016	08/31/2016	999	MP_NAME_1	67	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$5,011.20	\$4,477.41	\$223,870.50
8 August 2016	08/01/2016	08/31/2016	08/31/2016	999	MP_NAME_1	68	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$4,802.40	\$4,477.41	\$223,870.50
7 July 2016	07/01/2016	07/31/2016	07/31/2016	999	MP_NAME_1	69	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$4,593.60	\$4,477.41	\$223,870.50
7 July 2016	07/01/2016	07/31/2016	07/31/2016	999	MP_NAME_1	81	61754	CENTRL	CENTRL	61756	MHK VL	MHK VL	25	25	\$153.12	\$33.98	\$849.50
7 July 2016	07/01/2016	07/31/2016	07/31/2016	999	MP_NAME_1	82	61754	CENTRL	CENTRL	61756	MHK VL	MHK VL	25	25	\$132.24	\$33.98	\$849.50
6 June 2016	06/01/2016	06/30/2016	06/30/2016	999	MP_NAME_1	83	61754	CENTRL	CENTRL	61756	MHK VL	MHK VL	25	25	\$111.36	\$33.98	\$849.50
6 June 2016	06/01/2016	06/30/2016	06/30/2016	999	MP_NAME_1	84	61754	CENTRL	CENTRL	61756	MHK VL	MHK VL	25	25	\$90.48	\$33.98	\$849.50
6 June 2016	06/01/2016	06/30/2016	06/30/2016	999	MP_NAME_1	85	61754	CENTRL	CENTRL	61756	MHK VL	MHK VL	25	25	\$69.60	\$33.98	\$849.50
5 May 2016	05/01/2016	05/31/2016	05/31/2016	999	MP_NAME_1	86	61754	CENTRL	CENTRL	61756	MHK VL	MHK VL	50	50	\$48.72	\$33.98	\$1,699.00
5 May 2016	05/01/2016	05/31/2016	05/31/2016	999	MP_NAME_1	91	61753	GENESE	GENESE	61754	CENTRL	CENTRL	25	25	\$515.04	\$477.23	\$11,930.75
5 May 2016	05/01/2016	05/31/2016	05/31/2016	999	MP_NAME_1	92	61753	GENESE	GENESE	61754	CENTRL	CENTRL	25	25	\$494.16	\$477.23	\$11,930.75
5 May 2016	05/01/2016	05/31/2016	05/31/2016	999	MP_NAME_1	131	61752	WEST	WEST	61754	CENTRL	CENTRL	25	25	\$292.32	(\$61.51)	(\$1,537.75)
6 June 2016	06/01/2016	06/30/2016	06/30/2016	999	MP_NAME_1	132	61752	WEST	WEST	61754	CENTRL	CENTRL	25	25	\$271.44	(\$61.51)	(\$1,537.75)
6 June 2016	06/01/2016	06/30/2016	06/30/2016	999	MP_NAME_1	133	61752	WEST	WEST	61754	CENTRL	CENTRL	25	25	\$250.56	(\$61.51)	(\$1,537.75)
6 June 2016	06/01/2016	06/30/2016	06/30/2016	999	MP_NAME_1	134	61752	WEST	WEST	61754	CENTRL	CENTRL	25	25	\$229.68	(\$61.51)	(\$1,537.75)
5 May 2016	05/01/2016	05/31/2016	05/31/2016	999	MP_NAME_1	135	61752	WEST	WEST	61754	CENTRL	CENTRL	50	50	\$208.80	(\$61.51)	(\$3,075.50)
5 May 2016	05/01/2016	05/31/2016	05/31/2016	999	MP_NAME_1	136	61752	WEST	WEST	61754	CENTRL	CENTRL	50	50	\$187.92	(\$61.51)	(\$3,075.50)
5 May 2016	05/01/2016	05/31/2016	05/31/2016	999	MP_NAME_1	137	61752	WEST	WEST	61754	CENTRL	CENTRL	50	50	\$167.04	(\$61.51)	(\$3,075.50)
Sub-total 05/01/2016 05/31/2016												275	275			\$14,796.25	
Sub-total 06/01/2016 06/30/2016												150	150			(\$2,064.75)	
Sub-total 07/01/2016 07/31/2016												100	100			\$225,569.50	
Sub-total 08/01/2016 08/31/2016												150	150			\$671,611.50	
Sub-total 09/01/2016 09/30/2016												150	150			\$671,611.50	
Sub-total 10/01/2016 10/31/2016												150	150			\$1,064,120.00	
Total												975	975			\$2,645,644.00	

# Report Changes - MP Unbundled Bid Awards

- New columns added to report
- Redundant/duplicate columns removed

Period ID	Period Name	Start Date	End Date	MP ID	MP Name	Bid Code	POI	POI Name	POI Zone	POW	POW Name	POW Zone	Bid MW	Awarded MW	Bid Price	Period MCP	Period Award \$
10 October 2016	10/01/2016	10/31/2016	10/31/2016	1	MP_NAME_1	31	61754	CENTRL	CENTRL	61758	HUD VL	HUD VL	50	50	\$12,388.80	\$12,327.58	\$616,379.00
10 October 2016	10/01/2016	10/31/2016	10/31/2016	1	MP_NAME_1	61	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$6,264.00	\$4,477.41	\$223,870.50
9 September 2016	09/01/2016	09/30/2016	09/30/2016	1	MP_NAME_1	62	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$5,446.40	\$4,477.41	\$223,870.50
9 September 2016	09/01/2016	09/30/2016	09/30/2016	1	MP_NAME_1	63	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$5,446.40	\$4,477.41	\$223,870.50
9 September 2016	09/01/2016	09/30/2016	09/30/2016	1	MP_NAME_1	64	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$5,446.40	\$4,477.41	\$223,870.50
9 September 2016	09/01/2016	09/30/2016	09/30/2016	1	MP_NAME_1	65	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$5,446.40	\$4,477.41	\$223,870.50
8 August 2016	08/01/2016	08/31/2016	08/31/2016	1	MP_NAME_1	66	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$5,220.00	\$4,477.41	\$223,870.50
8 August 2016	08/01/2016	08/31/2016	08/31/2016	1	MP_NAME_1	67	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$5,011.20	\$4,477.41	\$223,870.50
8 August 2016	08/01/2016	08/31/2016	08/31/2016	1	MP_NAME_1	68	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$4,802.40	\$4,477.41	\$223,870.50
7 July 2016	07/01/2016	07/31/2016	07/31/2016	1	MP_NAME_1	69	61758	HUD VL	HUD VL	61757	CAPITL	CAPITL	50	50	\$4,593.60	\$4,477.41	\$223,870.50
7 July 2016	07/01/2016	07/31/2016	07/31/2016	1	MP_NAME_1	81	61754	CENTRL	CENTRL	61756	MHK VL	MHK VL	25	25	\$153.12	\$33.98	\$849.50
7 July 2016	07/01/2016	07/31/2016	07/31/2016	1	MP_NAME_1	82	61754	CENTRL	CENTRL	61756	MHK VL	MHK VL	25	25	\$132.24	\$33.98	\$849.50
6 June 2016	06/01/2016	06/30/2016	06/30/2016	1	MP_NAME_1	83	61754	CENTRL	CENTRL	61756	MHK VL	MHK VL	25	25	\$111.36	\$33.98	\$849.50
6 June 2016	06/01/2016	06/30/2016	06/30/2016	1	MP_NAME_1	84	61754	CENTRL	CENTRL	61756	MHK VL	MHK VL	25	25	\$90.48	\$33.98	\$849.50
6 June 2016	06/01/2016	06/30/2016	06/30/2016	1	MP_NAME_1	85	61754	CENTRL	CENTRL	61756	MHK VL	MHK VL	25	25	\$69.60	\$33.98	\$849.50
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	86	61754	CENTRL	CENTRL	61756	MHK VL	MHK VL	50	50	\$48.72	\$33.98	\$1,699.00
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	91	61753	GENESE	GENESE	61754	CENTRL	CENTRL	25	25	\$515.04	\$477.23	\$11,930.75
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	92	61753	GENESE	GENESE	61754	CENTRL	CENTRL	25	25	\$494.16	\$477.23	\$11,930.75
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	131	61752	WEST	WEST	61754	CENTRL	CENTRL	25	25	\$292.32	(\$61.51)	(\$1,537.75)
6 June 2016	06/01/2016	06/30/2016	06/30/2016	1	MP_NAME_1	132	61752	WEST	WEST	61754	CENTRL	CENTRL	25	25	\$271.44	(\$61.51)	(\$1,537.75)
6 June 2016	06/01/2016	06/30/2016	06/30/2016	1	MP_NAME_1	133	61752	WEST	WEST	61754	CENTRL	CENTRL	25	25	\$250.56	(\$61.51)	(\$1,537.75)
6 June 2016	06/01/2016	06/30/2016	06/30/2016	1	MP_NAME_1	134	61752	WEST	WEST	61754	CENTRL	CENTRL	25	25	\$229.68	(\$61.51)	(\$1,537.75)
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	135	61752	WEST	WEST	61754	CENTRL	CENTRL	50	50	\$208.80	(\$61.51)	(\$3,075.50)
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	136	61752	WEST	WEST	61754	CENTRL	CENTRL	50	50	\$187.92	(\$61.51)	(\$3,075.50)
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	137	61752	WEST	WEST	61754	CENTRL	CENTRL	50	50	\$167.04	(\$61.51)	(\$3,075.50)
Sub-total 05/01/2016 05/31/2016													275	275			\$14,796.25
Sub-total 06/01/2016 06/30/2016													150	150			(\$2,064.75)
Sub-total 07/01/2016 07/31/2016													100	100			\$225,569.50
Sub-total 08/01/2016 08/31/2016													150	150			\$671,611.50
Sub-total 09/01/2016 09/30/2016													150	150			\$671,611.50
Sub-total 10/01/2016 10/31/2016													150	150			\$1,064,120.00
Total													975	975			\$2,645,644.00

# Report Changes - MP Sale Awards Report

- Same changes as bid reports but for offer sales

MP Sale Awards Report																												
Period ID	Period Name	Start Date	End Date	MP ID	MP Name	Offer Code	POI	POI Name	POI Zone	POW	POW Name	POW Zone	Offer MW	Sold MW	Offer Price	Period MCP	Period Award \$	Total MCP	Total Award \$	Contract Number	Season	Year	Round Type	Round Title	Round ID	Status	Version	
10 October 2016	10/01/2016	10/01/2016	10/31/2016	1	MP_NAME_1	11	24143 WESTERN_NY_WIND	GENESE	24024 SITHE_BATAVIA	GENESE	2	1	1	1	1	(\$5.96)	(\$5.96)	(\$5.96)	(\$5.96)	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1	
10 October 2016	10/01/2016	10/01/2016	10/31/2016	1	MP_NAME_1	12	32578 CHAT_HIGH_FALL_HYD	NORTH	24063 O.H._GEN_BRUCE	O H	2	2	2	2	2	\$765.60	\$1,694.87	\$1,694.87	\$1,694.87	\$1,694.87	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
10 October 2016	10/01/2016	10/01/2016	10/31/2016	1	MP_NAME_1	14	323590 HQ_GEN_CEDARS_PROXY	H Q	24063 O.H._GEN_BRUCE	O H	8	8	8	8	8	\$835.20	\$1,694.87	\$13,558.96	\$1,694.87	\$13,558.96	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
9 September 2016	09/01/2016	09/30/2016	09/30/2016	1	MP_NAME_1	15	24042 N SALMON_HYD	NORTH	24063 O.H._GEN_BRUCE	O H	7	7	7	7	7	\$765.60	\$1,660.91	\$1,660.91	\$1,660.91	\$1,660.91	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
9 September 2016	09/01/2016	09/30/2016	09/30/2016	1	MP_NAME_1	17	61755 NORTH	NORTH	24063 O.H._GEN_BRUCE	O H	5	5	5	5	5	\$765.60	\$1,706.66	\$8,533.30	\$1,706.66	\$8,533.30	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
9 September 2016	09/01/2016	09/30/2016	09/30/2016	1	MP_NAME_1	18	23600 ST LAWRENCE	NORTH	24063 O.H._GEN_BRUCE	O H	6	6	6	6	6	\$835.20	\$1,720.91	\$10,325.46	\$1,720.91	\$10,325.46	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
8 August 2016	08/01/2016	08/31/2016	08/31/2016	1	MP_NAME_1	19	23600 ST LAWRENCE	NORTH	24063 O.H._GEN_BRUCE	O H	6	6	6	6	6	\$904.80	\$1,720.91	\$10,325.46	\$1,720.91	\$10,325.46	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
8 August 2016	08/01/2016	08/31/2016	08/31/2016	1	MP_NAME_1	20	323696 MARBLE_RIVER_WT_PWR	NORTH	23767 NEG CENTRAL_HIGH_ACRES	CENTRL	1	1	1	1	1	\$1,044.00	\$1,635.33	\$1,635.33	\$1,635.33	\$1,635.33	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
8 August 2016	08/01/2016	08/31/2016	08/31/2016	1	MP_NAME_1	26	23760 NIAGARA	WEST	24063 O.H._GEN_BRUCE	O H	5	5	5	5	5	(\$208.80)	(\$155.20)	(\$776.00)	(\$155.20)	(\$776.00)	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
7 July 2016	07/01/2016	07/31/2016	07/31/2016	1	MP_NAME_1	31	23799 SELKIRK_II	CAPITL	24062 N.E._GEN_SANDY PD	NPX	2	2	2	2	2	(\$487.20)	(\$307.31)	(\$614.52)	(\$307.31)	(\$614.52)	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
7 July 2016	07/01/2016	07/31/2016	07/31/2016	1	MP_NAME_1	38	23540 HUDSON_AVE_GT_4	N.Y.C.	24244 RAVENSWOOD_GT2_1	N.Y.C.	2	2	2	2	2	\$60.00	\$41.19	\$82.38	\$41.19	\$82.38	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
7 July 2016	07/01/2016	07/31/2016	07/31/2016	1	MP_NAME_1	59	23804 IP_TICONDEROGA	CAPITL	24062 N.E._GEN_SANDY PD	NPX	5	5	5	5	5	(\$696.00)	(\$487.20)	(\$2,436.00)	(\$487.20)	(\$2,436.00)	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
6 June 2016	06/01/2016	06/30/2016	06/30/2016	1	MP_NAME_1	62	23799 SELKIRK_II	CAPITL	24062 N.E._GEN_SANDY PD	NPX	5	5	5	5	5	(\$556.80)	(\$307.31)	(\$1,536.55)	(\$307.31)	(\$1,536.55)	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
6 June 2016	06/01/2016	06/30/2016	06/30/2016	1	MP_NAME_1	77	323601 HQ_GEN_IMPORT	H Q	24008 NYISO_LBMP_REFERENCE	MHK VL	10	10	10	10	10	\$417.60	\$440.17	\$4,401.70	\$440.17	\$4,401.70	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
6 June 2016	06/01/2016	06/30/2016	06/30/2016	1	MP_NAME_1	78	24138 59TH STREET_GT_1	N.Y.C.	323558 EAST_RIVER_1	N.Y.C.	4	4	4	4	4	\$13.92	\$70.22	\$280.88	\$70.22	\$280.88	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	83	23522 WADING_RIVER_IC_1	LONGIL	23690 HOLTSVILLE_IC_1	LONGIL	11	11	11	11	11	(\$5.96)	\$6.28	\$69.08	\$6.28	\$69.08	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	85	23799 SELKIRK_II	CAPITL	24062 N.E._GEN_SANDY PD	NPX	11	11	11	11	11	(\$487.20)	(\$307.31)	(\$3,380.41)	(\$307.31)	(\$3,380.41)	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	88	23799 SELKIRK_II	CAPITL	24062 N.E._GEN_SANDY PD	NPX	13	13	13	13	13	(\$556.80)	(\$307.31)	(\$3,995.03)	(\$307.31)	(\$3,995.03)	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	89	323601 HQ_GEN_IMPORT	H Q	323626 WETHRSFD_WT_PWR	CENTRL	5	5	5	5	5	\$1,879.20	\$2,745.17	\$13,725.85	\$2,745.17	\$13,725.85	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
6 June 2016	06/01/2016	06/30/2016	06/30/2016	1	MP_NAME_1	90	23651 HQ_GEN_WHEEL	H Q	24063 O.H._GEN_BRUCE	O H	6	6	6	6	6	\$974.40	\$1,716.54	\$10,299.24	\$1,716.54	\$10,299.24	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
6 June 2016	06/01/2016	06/30/2016	06/30/2016	1	MP_NAME_1	91	323601 HQ_GEN_IMPORT	H Q	24008 NYISO_LBMP_REFERENCE	MHK VL	10	10	10	10	10	\$348.00	\$440.17	\$4,401.70	\$440.17	\$4,401.70	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
6 June 2016	06/01/2016	06/30/2016	06/30/2016	1	MP_NAME_1	92	323601 HQ_GEN_IMPORT	H Q	24008 NYISO_LBMP_REFERENCE	MHK VL	10	10	10	10	10	\$417.60	\$440.17	\$4,401.70	\$440.17	\$4,401.70	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	93	23760 NIAGARA	WEST	24063 O.H._GEN_BRUCE	O H	11	11	11	11	11	(\$348.00)	(\$155.20)	(\$1,707.20)	(\$155.20)	(\$1,707.20)	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	94	23799 SELKIRK_II	CAPITL	24062 N.E._GEN_SANDY PD	NPX	11	11	11	11	11	(\$556.80)	(\$307.31)	(\$3,380.41)	(\$307.31)	(\$3,380.41)	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	95	23804 IP_TICONDEROGA	CAPITL	24062 N.E._GEN_SANDY PD	NPX	13	13	13	13	13	(\$487.20)	(\$487.20)	(\$5,359.20)	(\$487.20)	(\$5,359.20)	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1
5 May 2016	05/01/2016	05/31/2016	05/31/2016	1	MP_NAME_1	96	23799 SELKIRK_II	CAPITL	24062 N.E._GEN_SANDY PD	NPX	13	13	13	13	13	(\$487.20)	(\$307.31)	(\$3,995.03)	(\$307.31)	(\$3,995.03)	999999	Summer	2016	Balance-of-Period Auction	May 2016	1	Approved	1

# Report Changes - Masked Bid and Offer

- New columns added to report

Period ID	Period Name	Start Date	End Date	Group ID	Masked Participant ID	Masked Source ID	Masked Sink ID	Bid/Offer MW	Bid/Offer \$	Bid/Offer
3 March 2017		03/01/2017	03/31/2017	3734873	837	537	52	1	(\$628.32)	Offer
4 April 2017		04/01/2017	04/30/2017	3734874	837	537	52	1	(\$618.24)	Offer
4 April 2017		04/01/2017	04/30/2017	3734875	838	537	52	1	(\$608.16)	Offer
2 February 2017		02/1/2017	02/28/2017	3734877	838	537	52	1	(\$618.24)	Offer
3 March 2017		03/01/2017	03/31/2017	3734881	838	537	52	1	(\$618.24)	Offer
3 March 2017		03/01/2017	03/31/2017	3734878	901	93	6	1	\$349.44	Offer
4 April 2017		04/01/2017	04/30/2017	3734879	901	93	6	1	\$362.88	Offer
2 February 2017		02/1/2017	02/28/2017	3734893	901	537	52	1	(\$608.16)	Offer
2 February 2017		02/1/2017	02/28/2017	3731432	924	20	58	1	\$1,222.85	Offer
3 March 2017		03/01/2017	03/31/2017	3731437	924	20	58	1	\$1,222.85	Offer
4 April 2017		04/01/2017	04/30/2017	3731439	924	20	58	1	\$1,222.85	Offer
3 March 2017		03/01/2017	03/31/2017	3730808	954	42	572	1	\$20.16	Offer
2 February 2017		02/1/2017	02/28/2017	3730812	954	42	572	1	\$20.16	Offer
4 April 2017		04/01/2017	04/30/2017	3731431	954	20	58	1	\$1,223.33	Offer
3 March 2017		03/01/2017	03/31/2017	3737886	835	4	504	1	\$6,500.00	Bid
4 April 2017		04/01/2017	04/30/2017	3737888	835	4	504	1	\$6,500.00	Bid
2 February 2017		02/1/2017	02/28/2017	3737897	835	4	504	1	\$10,000.00	Bid
2 February 2017		02/1/2017	02/28/2017	3737772	836	51	504	1	\$5,000.00	Bid
4 April 2017		04/01/2017	04/30/2017	3737884	836	4	504	1	\$10,000.00	Bid
3 March 2017		03/01/2017	03/31/2017	3737898	836	4	504	1	\$10,000.00	Bid
2 February 2017		02/1/2017	02/28/2017	3737885	837	4	504	1	\$6,500.00	Bid
4 April 2017		04/01/2017	04/30/2017	3737833	860	51	45	3	(\$1,400.00)	Bid
2 February 2017		02/1/2017	02/28/2017	3737843	860	51	45	3	(\$1,400.00)	Bid
3 March 2017		03/01/2017	03/31/2017	3737883	860	51	45	3	(\$1,400.00)	Bid
2 February 2017		02/1/2017	02/28/2017	3737817	881	51	45	3	(\$1,250.00)	Bid
3 March 2017		03/01/2017	03/31/2017	3737834	881	51	45	3	(\$1,250.00)	Bid
4 April 2017		04/01/2017	04/30/2017	3737882	881	51	45	3	(\$1,250.00)	Bid
Round Summary										
Season	Round Type	Year	Stage	Round	Class	Version	Round Status	Round Title		
Winter	Balance-of-Period Auction	2016	b	0	2	1	Approved	February 2017		
Report Ctr 03/28/2017 12:46:04										



# Market Trials

# Activities to Perform

- **Balance-of-Period mock auction round will be available for bidding and offering**
  - Participating MPs should enter and submit bid/offer sets
- **Participating MPs will have access to all updated reports**
  - It is recommended that these reports be accessed and reviewed

# Next Steps

# Next Steps

- **Market Trials**
  - Week of June 5<sup>th</sup>
- **Additional WebEx Training Sessions**
  - Week of June 12<sup>th</sup>
- **Production Deployment**
  - Currently targeted for June 13, 2017
- **First Balance-of-Period Auction**
  - Currently anticipated to be conducted in August 2017 for the September Reconfiguration Auction
    - Would provide MPs the ability to purchase and sell TCCs for September and October

# Additional Information

# Available Resources

- **Balance-of-Period Training Folder**

- [http://www.nyiso.com/public/markets\\_operations/market\\_data/tcc/index.jsp](http://www.nyiso.com/public/markets_operations/market_data/tcc/index.jsp)
  - MP BoP Design WebEx
  - MP BoP Design WebEx Reports
  - TCC BoP Training Session

- **TCC Automated Market System User's Guide**

- Interim draft located in “*Under Review*” section of Manuals & Guides
- [http://www.nyiso.com/public/markets\\_operations/documents/manuals\\_guides/index.jsp](http://www.nyiso.com/public/markets_operations/documents/manuals_guides/index.jsp)

- **NYISO Stakeholder Services Team**

- 518-356-6060
- [stakeholder\\_services@nyiso.com](mailto:stakeholder_services@nyiso.com)

# **The Mission of the New York Independent System Operator, in collaboration with its stakeholders, is to serve the public interest and provide benefits to consumers by:**

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policy makers, stakeholders and investors in the power system



**[www.nyiso.com](http://www.nyiso.com)**

# Questions?