

# TCC Automation Project Phase 1 (Awards Notification)

Business Issues Committee

May 17, 2006

# TCC Automation Project

## *Background*

- ✓ The existing processes used to administer the TCC market are manually intensive and are email & spreadsheet based
- ✓ The TCC automation project seeks to achieve benefits in efficiency, accuracy, and to provide a foundation that can support additional market features
- ✓ The implementation plan uses a phased approach
  - *Phase 1 - Automation of auction award processing and communications*
  - *Phase 2 - TCC inventory management system*
  - *Phase 3 - Automation of the market participant bid and offer entry process*
- ✓ Phase 1 is scheduled for deployment in 2006 with ongoing design and development work continuing on the next phases

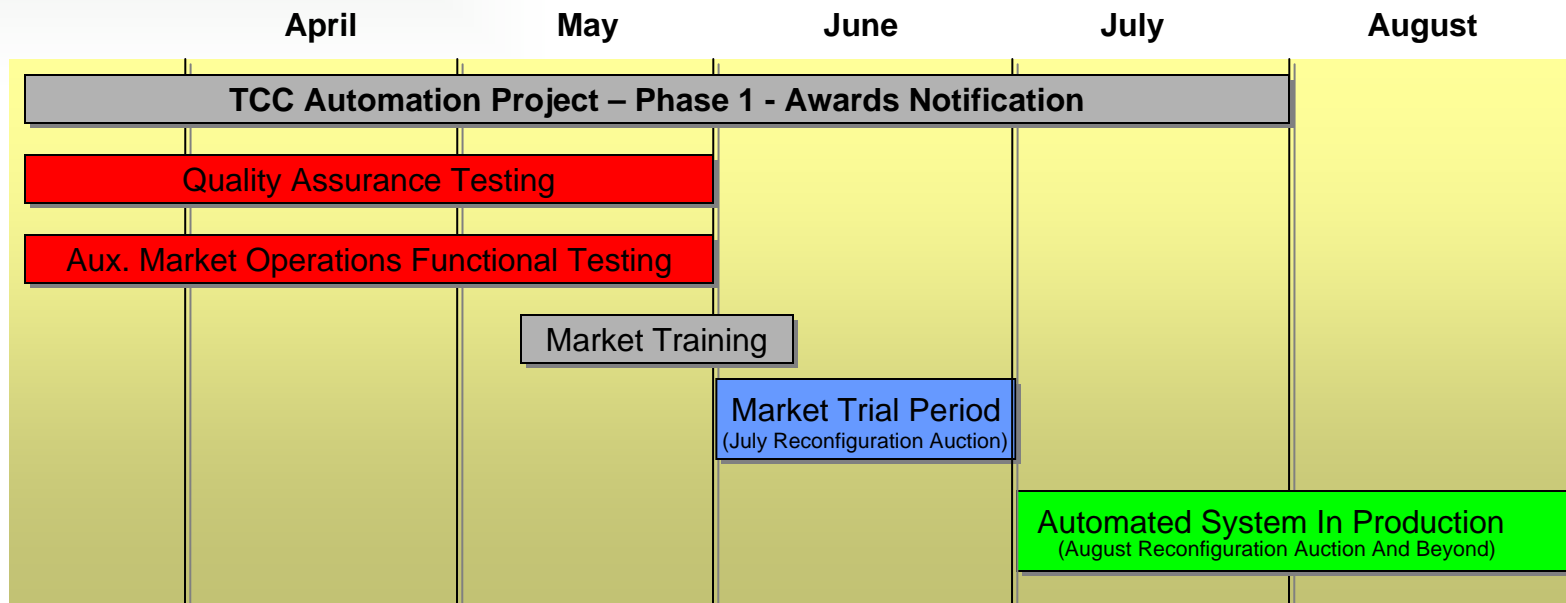
# TCC Automation Phase 1

## *Awards Notification*

### ✓ Highlights

- *This phase automates the communication of Auction Awards via a secure web-based interface*
  - Discontinues email/hardcopy notices of MP specific information
- *Existing Excel (or CSV) award reports are maintained and available directly through the application and public website where appropriate.*
  - In addition, as future auction data becomes available in the automated system, summary reports can be generated for multiple auctions.
- *Retires use of temporary TCC IDs for Capability Period Auctions.*
  - The initial ID assigned during an auction round will persist and will be used in BAS.
- *For Phase 1 – Bids & Offers continue to be submitted via email using the Excel form posted by the NYISO for each auction.*
  - This process continues as-is and does not change

# TCC Automation Phase 1 Timeline



 Internal Test Activity

 Market Trial Activity

 Production System Activity

# TCC Automation Phase 1

## *Market Trial Period – June '06*

- ✓ Scheduled to occur in the month of June for the July Reconfiguration Auction
- ✓ Early June
  - *Market Trial system will be available to test user account access*
- ✓ **Upon completion of the July monthly reconfiguration auction (6/21)**
  - *Official auction award notices will be provided via legacy methods (email/hardcopy)*
  - *Award data will also be loaded into Market Trial environment*
    - Provides an opportunity for MPs to validate the results from the automated system against official award notices and report issues to the NYISO
    - Information in the automated system to be considered for information only
    - If there are any discrepancies, the email/hardcopy award notices take precedence


# TCC Automation Phase 1

## *System in Production – July '06*

- ✓ First production use of the new automated system planned in July for the August reconfiguration auction
- ✓ Early July
  - *Production system available to test user account access*
- ✓ Upon completion of the August monthly reconfiguration auction (7/19)
  - *Official auction award notices will be provided via automated web based system*
  - *No email/hardcopy notices will be sent unless there is a failure of the automated system*

# TCC Automation Phase 1

## Application Access – Sample View



NYISO (Products - TCC - General Information) - Microsoft Internet Explorer

Address: http://www.nyiso.com/public/products/tcc/index.jsp

Archives Careers Contact Us FAQ's

Company Newsroom **Products** Market Data Services

Energy Market  
Ancillary Services  
ICAP  
**TCC**  
Info/Announcements  
Auctions  
DAM Marginal Losses  
TCC Manual  
Demand Response

**MY NYISO**

Username:  
Password:

Archives Careers Contact Us FAQ's

Energy Market  
Ancillary Services  
ICAP  
**TCC**  
Demand Response

### Transmission Congestion Contracts (TCC)

Transmission Congestion Contracts (TCCs) are designed to enable energy buyers and sellers to hedge fluctuation in the price of transmission. The holder of a TCC is responsible for collecting, or the obligation to pay, congestion rents in the Day-Ahead Market for energy assets between a specified point of injection and point of withdrawal.

The NYISO conducts periodic auctions where TCCs may be purchased or sold. The auctions' objective is to maximize the value of the TCC awards based on the bids and subject to transmission line and contingency constraints. An Optimal Power Flow program is used to determine the TCCs awarded in an auction.

- TCC Information & Announcements
- TCC Auctions
- DAM Marginal Losses and Congestion Costs
- TCC Manual
- TCC - Rules, Procedures & Guidelines
- TCC Automated Market User Login

### TCC General Information

Document Name	Date	Type	Size
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# TCC Automation Phase 1

*Main View with drop-down menu of available options after user login*



The screenshot shows the main interface of the ISO New York Bidding & Scheduling System. At the top, the ISO logo and tagline "Building The Energy Markets Of Tomorrow...Today" are on the left, and the text "Welcome To The Bidding & Scheduling System" is on the right. Below this is a navigation bar with tabs for "Company", "Newsroom", "Products", "Market Data", "Services", and "Documents". A drop-down menu is open under the "Company" tab, listing several options. The options are grouped into two categories: "Public" and "MP Specific".

Category	Options
Public	View Awards View Nodal Prices View Awards Summary View Binding Constraints
MP Specific	View MP Award Summary View MP Bundled Purchase View MP Unbundled Purchase View MP Sale Awards

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# TCC Automation Phase 1

## View MP Unbundled Purchase

Auction: **Round 7 (Stage I) Six Month TCC Auction**  
**Round 7 (Stage I) Six Month TCC Auction Version(1)**  
**November 2005 Reconfiguration Version(2)**

MP: **J. Watt Co**

### View MP Unbundled Purchase Awards

**MP Unbundled Purchase Awards**

Seq. #	OPF #	Participant Code	Bid Code	POI	POW	Stage	Round	Class	POI	POW	BID MW	BUY MW	BID PRICE	MCP	Total \$	Permanent TCC ID	Start Date	End Date	Auction Season and Year	Status	Version
1000	N	99	5	99010	76512	b	1	1	99010	76512	5	5	\$1,200.00	\$333.49	\$1,667.45	166801	11/01/2005	11/30/2005	Winter 2005-2006	Approved	2
1001	N	99	17	99013	76615	b	1	1	99013	76615	5	5	\$0.00	(\$860.12)	(\$4,300.60)	166808	11/01/2005	11/30/2005	Winter 2005-2006	Approved	2
1002	N	99	23	99016	76718	b	1	1	99016	76718	10	10	(\$500.00)	(\$860.12)	(\$8,601.20)	166815	11/01/2005	11/30/2005	Winter 2005-2006	Approved	2
1003	N	99	36	99019	76821	b	1	1	99019	76821	5	5	(\$400.00)	(\$1,100.55)	(\$5,502.75)	166822	11/01/2005	11/30/2005	Winter 2005-2006	Approved	2
1004	N	99	41	99022	76924	b	1	1	99022	76924	4	4	\$14,300.00	\$13,932.42	\$55,729.68	166829	11/01/2005	11/30/2005	Winter 2005-2006	Approved	2
1005	N	99	43	99025	77027	b	1	1	99025	77027	5	5	(\$600.00)	(\$1,200.25)	(\$6,001.25)	166836	11/01/2005	11/30/2005	Winter 2005-2006	Approved	2
1006	N	99	66	99028	77130	b	1	1	99028	77130	1	1	(\$6,000.00)	(\$7,216.39)	(\$7,216.39)	166843	11/01/2005	11/30/2005	Winter 2005-2006	Approved	2
1007	N	99	69	99031	77233	b	1	1	99031	77233	5	2	(\$400.00)	(\$400.00)	(\$800.00)	166850	11/01/2005	11/30/2005	Winter 2005-2006	Approved	2
1008	N	99	70	99034	77336	b	1	1	99034	77336	5	5	\$1,000.00	\$399.16	\$1,995.80	166857	11/01/2005	11/30/2005	Winter 2005-2006	Approved	2
1009	N	99	73	99037	77439	b	1	1	99037	77439	1	1	(\$6,000.00)	(\$6,480.96)	(\$6,480.96)	166864	11/01/2005	11/30/2005	Winter 2005-2006	Approved	2
1010	N	99	74	99040	77542	b	1	1	99040	77542	5	5	\$1,200.00	\$1,199.41	\$5,997.05	166871	11/01/2005	11/30/2005	Winter 2005-2006	Approved	2
1011	N	99	76	99043	77645	b	1	1	99043	77645	1	1	(\$6,000.00)	(\$6,477.08)	(\$6,477.08)	166878	11/01/2005	11/30/2005	Winter 2005-2006	Approved	2

# TCC Automation Phase 1 *Summary*

- ✓ **TCC Automation - Phase 1 Changes**
  - *TCC Auction Award notification process only; Not Bid/Offer submission*
  - *Eliminates use of temporary TCC IDs in capability period auctions*
- ✓ **User Access**
  - *TCC users must have an MIS account with TCC privileges enabled by their MIS administrator and;*
  - *Will need to obtain digital certificates from the NYISO if they don't already have one*
- ✓ **Training**
  - *Self-directed web based training available on the website in mid-May.*
  - *A live webex walk-thru and question/answer session is also planned for late May or early June.*
- ✓ **Communication**
  - *We will be sending updates and information about the automation directly to our list of TCC auction participants and;*
  - *Will continue to provide further information regarding the Market Trial and Deployment Schedule to the committees and working groups.*