

Graduated Transmission Demand Curve (GTDC) Documentation Updates

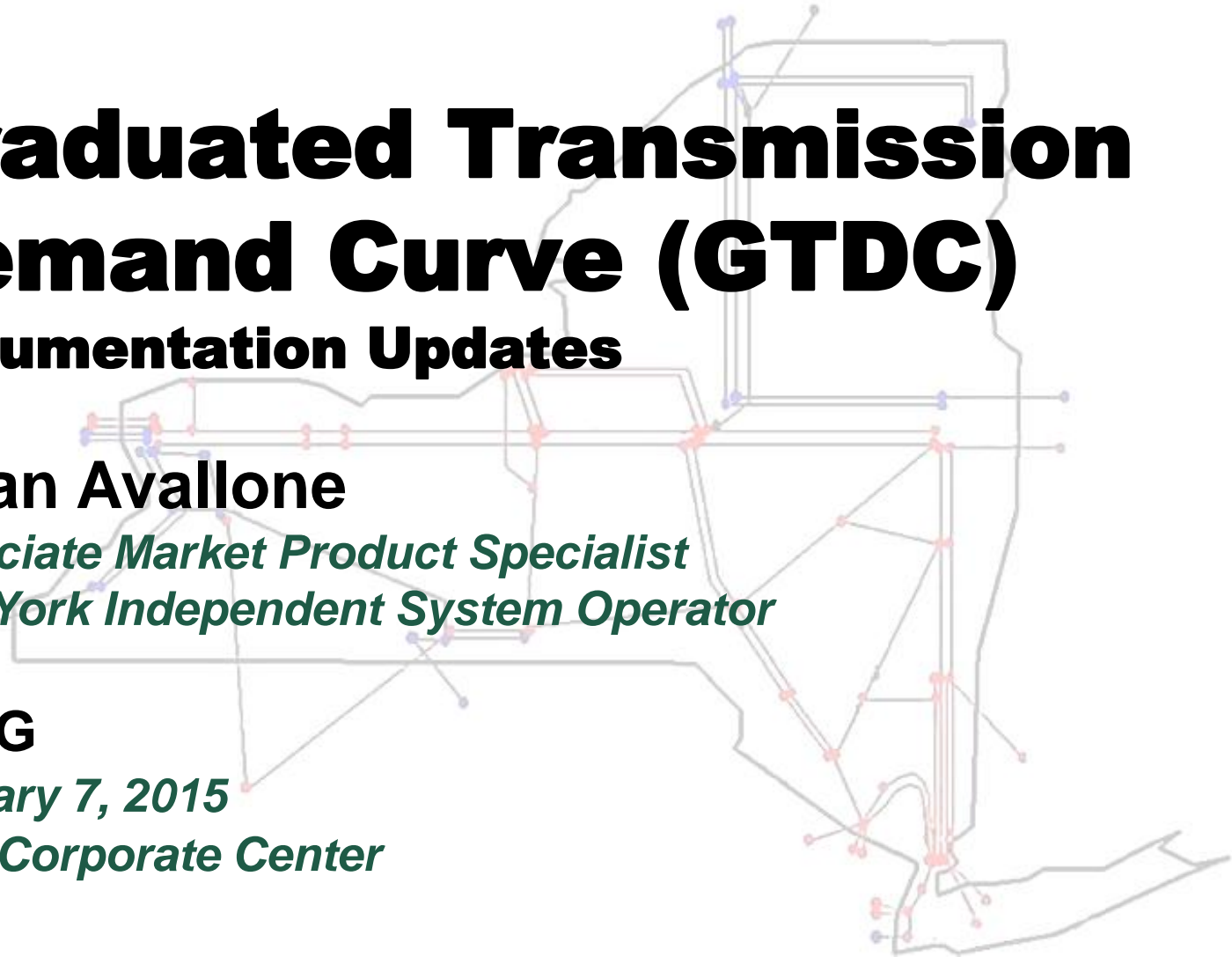
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MIWG

January 7, 2015

Krey Corporate Center



Agenda

- ◆ **Background**
- ◆ **Manual Updates- GTDC**
 - *Transmission & Dispatching Operations Manual*
 - *Day-Ahead Scheduling Manual*
- ◆ **Documentation Updates – Unrelated to GTDC**
 - *Transmission & Dispatching Operations Manual*
 - *Sub-Zone Boundaries Table*
 - *Table A-2: New York Control Area Interconnections with Other Control Areas*
- ◆ **Next Steps**

Background

- ✓ **December 2013**
 - ✓ *Graduated Transmission Demand Curve presented to BIC*
 - ✓ Stated that manual revisions would be required
- ✓ **February 11, 2014**
 - ✓ *The NYISO Board of Directors approved implementation of the graduated Transmission Demand Curve*
- ✓ **November 25, 2014**
 - ✓ *Graduated Transmission Demand Curve proposal filed with FERC (ER15-485-000)*
- ◆ **January 7, 2015 MIWG**
 - *Present manual updates for the graduated Transmission Demand Curve as well as other manual updates*

Background

- ◆ **Manual updates for the graduated Transmission Demand Curve will update the values shown for the Transmission Demand Curve in:**
 - *The Transmission and Dispatching Operations Manual*
 - *The Day-Ahead Scheduling Manual*
- ◆ **Other documentation updates are needed to incorporate various technical bulletins, revise sections mentioning NYISO Non-Firm transactions, and update a facility name change:**
 - *Transmission & Dispatching Operations Manual*
 - *Sub-Zone Boundaries Table*
 - *Table A-2: New York Control Area Interconnections with Other Control Areas*

Manual Updates - GTDC

- ◆ **Transmission & Dispatching Operations Manual**
 - ***Section 6.3.6-Demand Curves***
 - Update table 6.1 to include all three price/ quantity pairs of the approved graduated Transmission Demand Curve
- ◆ **Day-Ahead Scheduling Manual**
 - ***Section 4.3.4-Demand Curves***
 - Update the table in this section to include all three price/quantity pairs of the approved graduated Transmission Demand Curve
- ◆ **Changes will reflect dependency on FERC approval of the graduated Transmission Demand Curve tariff filing**

Documentation Updates – Unrelated to GTDC

- ◆ **Transmission & Dispatching Operations Manual**
 - *Minor document changes*
 - *Remove reference to NYISO non-firm transactions in the following:*
 - Sections 4.1.3, 4.2.7, 5.2.3, 5.7.1
 - Tables 5.1 and 5.3
 - *Incorporate the following Technical Bulletins*

<i>Number</i>	<i>Topic</i>	<i>Update Location</i>
<u>TB-151</u>	Import Transactions	Section 5.2.4
<u>TB-195</u>	ISO and Transmission Owner Target Voltage Level Program	Section 4.2.2
<u>TB-183</u>	NYISO Actions During Neighboring Control Area TLR Events	Section 5.2.3
<u>TB-023</u>	Schedule Changes and Ramping Off of Dispatch Units	Section 6.3.2
<u>TB-058</u>	External Transaction Scheduling Messages and Curtailment Notification	Section 5.2.3
<u>TB-061</u>	Interchange Scheduler Plus (IS+) And How It Is Used For Real-Time Transaction Curtailments	Section 5.2.2
<u>TB-092</u>	IMO / NYISO Transaction Scheduling Guidelines	Section 5.2.3

Documentation Updates – Unrelated to GTDC

- ◆ **Day-Ahead Scheduling Manual**
 - *Minor document changes*
 - *Section 4.2.7-Phase Angle Regulator Scheduling*
 - Incorporate “Branchburg-Ramapo Interconnection” to “Hopatcong-Ramapo Interconnection” name change
- ◆ **Sub-Zone Boundaries Table**
 - *Incorporate “Branchburg-Ramapo Interconnection” to “Hopatcong-Ramapo Interconnection” name change*
- ◆ **Table A-2: New York Control Area Interconnections with Other Control Areas**
 - *Incorporate “Branchburg-Ramapo Interconnection” to “Hopatcong-Ramapo Interconnection” name change*

Next Steps

- ◆ **January 8, 2015 SOAS**
- ◆ **February 11, 2015 BIC Meeting**
 - *Seek approval of the proposed manual updates*
- ◆ **February 13, 2015 OC Meeting**
 - *Seek approval of the proposed manual updates*
- ◆ **February 2015 Deployment & Activation (If approved by FERC*)**
 - *Graduated Transmission Demand Curve implementation*
- ◆ **If approved, these manual changes would not become effective until the FERC approves the graduated Transmission Demand Curve**
 - *The NYISO will not post the manual version incorporating the graduated Transmission Demand Curve changes until after FERC has approved, and the NYISO has implemented, the graduated Transmission Demand Curve*

*Graduated Transmission Demand Curve changes filed with the FERC November 25, 2014

Appendix: Demand Curve Table Updates

Transmission & Dispatching Operations Manual

◆ Section 6.3.6 Demand Curves

■ *Update table 6.1*

Type	NY Region	Demand Curve (MW)	Demand Curve Price (\$)
Regulation*	NYCA	25.0	\$80.00
		80.0	\$180.00
		remainder	\$400.00
Spinning Reserve	NYCA	All	\$500.00
10 Minute Reserve	NYCA	All	\$450.00
30 Minute Reserve	NYCA	200.0	\$50.00
		400.0	\$100.00
		remainder	\$200.00
Spinning Reserve	Eastern NY	All	\$25.00
10 Minute Reserve	Eastern NY	All	\$500.00
30 Minute Reserve	Eastern NY	All	\$25.00
Spinning Reserve	Long Island	All	\$25.00
10 Minute Reserve	Long Island	All	\$25.00
30 Minute Reserve	Long Island	All	\$25.00
Transmission	All	All	\$4000.00
Transmission	All	5.0	\$350.00
		20.0	\$1,175.00
		remainder	\$4,000.00

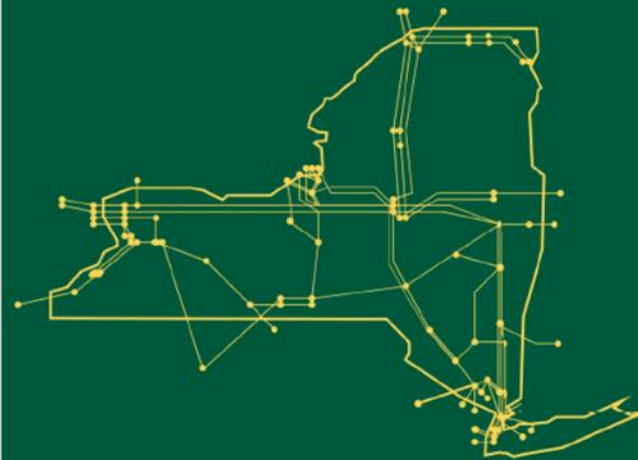
Day-Ahead Scheduling Manual

◆ Section 4.3.4 Demand Curves

- *Update the table in this section*

Type	NY Region	Demand Curve Amount (MW)	Demand Curve Price (\$)
Regulation	NYCA	25.0	\$80.00
		80.0	\$180.00
		remainder	\$400.00
Spinning Reserve	NYCA	All	\$500.00
10 Minute Reserve	NYCA	All	\$450.00
30 Minute Reserve	NYCA	200.0	\$50.00
		400.0	\$100.00
		remainder	\$200.00
Spinning Reserve	Eastern NY	All	\$25.00
10 Minute Reserve	Eastern NY	All	\$500.00
30 Minute Reserve	Eastern NY	All	\$25.00
Spinning Reserve	Long Island	All	\$25.00
10 Minute Reserve	Long Island	All	\$25.00
30 Minute Reserve	Long Island	All	\$25.00
Transmission	All	All	\$4000.00
Transmission	All	5.0	\$350.00
		20.0	\$1,175.00
		remainder	\$4,000.00

The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



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