

Dual Participation - Manuals Updates

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Agenda

- **Background**
- **Overview**
- **Updates**
 - Emergency Operations Manual
 - Day Ahead Scheduling Manual
 - Transmission & Dispatch Operations Manual
 - Ancillary Services Manual
- **Next Steps**
- **Appendix**

Background – Dual Participation

Date	Working Group	Discussion points and links to materials
3/20/2020	ICAPWG/MIWG/PRLWG	Dual Participation Manuals Updates
2/29/2020	ICAPWG/MIWG/PRLWG	DER Important Dates and Schedule
4/24/2019	MC	DER Energy & Capacity Market Design (Refer to slides 28-29)
4/23/2019	MC	Dual Participation – Additional Clarifications
4/17/2019	BIC	DER Energy & Capacity Market Design (Refer to slides 45-47;92-96)
2/28/2019	MIWG	DER Energy Market Design: Dual Participation

Overview – Dual Participation

- **The NYISO's market rules will allow resources that provide Wholesale Market services to also provide services to another entity (e.g., the utility or a host facility) beginning May 1, 2020**
- **The Dual Participation rules will apply to all Resources**
- **Resources engaged in Dual Participation will be required to:**
 - Comply with all NYISO market rules for the services offered to the wholesale market
 - Appropriately offer into the wholesale markets to reflect any non-wholesale (e.g., retail) obligations

Emergency Operations Manual

Updates – Emergency Operations Manual

- **Ministerial edits to Table of Contents & hyperlinks throughout**
- **Section 1.2.2. Operating Objectives**
 - Language to outline coordination of scheduling and dispatch of Resources engaged in Dual Participation between the NYISO and Transmission Owners
 - Giving priority to minimizing magnitude of reliability impacts

Day Ahead Scheduling Manual

Updates – Day Ahead Scheduling Manual

■ Section 3.1 Bid/Post Functions

- Language added to outline applicability of NYISO Day Ahead bidding rules to Resources engaged in Dual Participation
- Additional language to be included in Market Participant User's Guide

Transmission & Dispatch Operations Manual

Updates – Transmission & Dispatch Operations Manual

- **Section 2.1.2. NYISO Objective**
 - Outline coordination between NYISO and TOs aiming to minimize reliability impacts
- **Section 2.2.5. NYISO Responsibilities and Authorities**
 - NYISO and TO coordination
- **Section 2.4. Market Operations Timeline (Unrelated to Dual Participation)**
 - Ministerial spelling correction
- **Section 4.2.2. Voltage Control**
 - Ensure Resources engaged in Dual Participation are able to provide emergency services if applicable
- **Section 4.2.11. Solar Magnetic Disturbances (Unrelated to Dual Participation)**
 - Clarification of TO and Generator notification responsibilities

Updates – Transmission & Dispatch Operations Manual

- **Section 4.2.12. Status of Transmission and Generation Protection Systems**
 - Includes Resources engaged in Dual Participation
- **Section 6.1.1. Real-Time Commitment Process**
 - Language to define obligations outside the NYISO-administered market
 - Bidding obligations applicable to Resources engaged in Dual Participation
- **Section 6.7.4. Out-of-Merit Generation**
 - TO may request Resources engaged in Dual Participation not economically scheduled by the NYISO
- **Section 6.7.9. Supplemental Commitment Process**
 - TO may request Resources engaged in Dual Participation not economically scheduled by the NYISO

Ancillary Services Manual

Updates – Ancillary Services Manual

■ Section 3.3. Responsibilities for Service

- Resources engaged in Dual Participation must meet all applicable requirements in the NYISO MST and Manual

■ Section 3.7.2. Voltage Support Availability

- Resources engaged in Dual Participation must notify the NYISO of non-wholesale obligations that may limit voltage support capability

■ Section 4.4. Performance Tracking

- Resources engaged in Dual Participation must follow Regulation schedule

Updates – Ancillary Services Manual

- **Section 6.2.3. Other Supplier Requirements**

- Supply of Energy and Operating Reserves shall reflect obligations to non-wholesale obligations

- **Section 6.3.1. Bidding and Bid Selection**

- Bidding shall reflect non-wholesale obligations

- **Section 6.3.3. Responsibilities of Suppliers Scheduled to Provide Operating Reserves in the Day-Ahead Market**

- Applicable to Resources engaged in Dual Participation

Next Steps

Next Steps

- **Motion on Dual Participation Manuals Updates:**
 - Changes to Emergency Operations Manual
 - Changes to Day Ahead Scheduling Manual
 - Changes to Transmission & Dispatch Operations Manual
 - Changes to Ancillary Services Manual

Next Steps

- **Emergency Operations Manual**
 - April 9, 2020 – SOAS
 - April 16, 2020 – OC
- **Transmission & Dispatch Operations Manual**
 - April 9, 2020 – SOAS
 - April 16, 2020 – OC
- **Ancillary Services Manual**
 - April 9, 2020 – SOAS
 - April 16, 2020 – OC

Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit 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 policymakers, stakeholders and investors in the power system



Questions?

Appendix

Emergency Operations Manual

Updates – Emergency Operations Manual

- **Ministerial edits to Table of Contents & hyperlinks throughout**
- **Section 1.2.2. Operating Objectives**
 - Addition: “The ISO and Transmission Owners shall coordinate scheduling and dispatch for all Generators, Demand Side Resources, and Distributed Energy Resources engaged in Dual Participation giving priority to minimizing the magnitude of reliability impacts and to resolving actual impacts over predicted impacts. The ISO has the final authority to determine schedules for resources engaged in Dual Participation.”

Day Ahead Scheduling Manual

Updates – Day Ahead Scheduling Manual

■ Section 3.1 Bid/Post Functions

- Addition: “Resources engaged in Dual Participation that submit Bids in the Day-Ahead Market to meet an obligation(s) to a distribution utility or other entity must follow all applicable NYISO bidding and scheduling requirements (see, e.g., Market Participant User’s Guide Sec.[*to be identified when published]).”

Transmission & Dispatch Operations Manual

Updates – Transmission & Dispatch Operations Manual

- Ministerial edits to hyperlinks throughout
- **Section 2.1.2 NYISO Objective**
 - Addition: “The ISO and Transmission Owners shall coordinate scheduling and dispatch for all Generators, Demand Side Resources, and Distributed Energy Resources engaged in Dual Participation giving priority to minimizing the magnitude of reliability impacts and to resolving actual impacts over predicted impacts. The ISO has the final authority to determine schedules for resources engaged in Dual Participation.”

Updates – Transmission & Dispatch Operations Manual

- **Section 2.2.5. NYISO Responsibilities and Authorities**
 - Addition: “Coordinate the scheduling and dispatch of dual participating resources with TOs”
- **Section 2.4. Market Operations Timeline**
 - Ministerial spelling correction: “Corrective Action Mode”
- **Section 4.2.2. Voltage Control**
 - Addition: “NYISO and applicable TO shall coordinate to ensure dual participating resources are available to provide emergency services if applicable”

Updates – Transmission & Dispatch Operations Manual

■ *Unrelated to Dual Participation*

- Section 4.2.11. Solar Magnetic Disturbances
 - NYISO Actions – Level K6 Warning or Alert and Level K7 or Above Warning or Alert
 - Removal: “TOs will notify generators within their areas”
 - Transmission Owner Actions
 - Addition: “Notify generators within their areas that have a high-side wye grounded winding with terminal voltage greater than 200kV”

Updates – Transmission & Dispatch Operations Manual

- Section 4.2.12. Status of Transmission and Generation Protection Systems
 - Coordination
 - Addition: “*Coordination*. Coordinate protection systems and changes in generation, transmission, load, or operating conditions that could require changes in the protection systems of others. This coordination shall take place between the affected facility owners, including dual participating resources.”

Updates – Transmission & Dispatch Operations Manual

■ Section 6.1.1. Real-Time Commitment Process

- Real-Time Bids to Supply Energy and Ancillary Services
 - Addition:
 - Language to define obligations outside the NYISO-administered markets
 - Language to define how routine load changes and demand side charge management will not need to be bid in under Dual Participation
- Self-Commitment Requests
 - Addition: “Self-Committed Flexible Resources, including Resources engaged in Dual Participation, must provide the NYISO with schedules of their expected minimum operating points in quarter hour increments.”

Updates – Transmission & Dispatch Operations Manual

■ Section 6.7.4. Out-of-Merit Generation

- Transmission Owner Requests for Out-of-Merit Generation
 - Addition: “A TO may request an OOM for Resources engaged in Dual Participation that are not economically scheduled by the NYISO for a local system need.”

■ Section 6.7.9. Supplemental Commitment Process

- Addition: “A TO may utilize the SRE process for Resources engaged in Dual Participation that are not economically scheduled by the NYISO for a local system need.”

Ancillary Services Manual

Updates – Ancillary Services Manual

■ Section 3.3. Responsibilities for Service

- Addition: “Resources engaged in Dual Participation and providing VSS must meet all requirements identified in the NYISO Market Services Tariff and this Ancillary Services Manual.”

■ Section 3.7.2. Voltage Support Availability

- Addition: “The supplier is obligated to provide timely notification of any operational restrictions that may limit the voltage support capability, including, for suppliers engaged in Dual Participation, any limitations caused by the services provided by the supplier to the distribution utility or other entity.”

Updates – Ancillary Services Manual

■ Section 4.4. Performance Tracking

- Addition: “Regulation Service Resources, including Resources engaged in Dual Participation, are required to change their output level at a rate consistent with the amount of Regulation Service each resource has been scheduled to provide.”

■ Section 6.2.3. Other Supplier Requirements

- Addition: “For Suppliers engaged in Dual Participation, the total Energy and Operating Reserves that can be provided shall account for the Supplier’s obligation(s) to the distribution or other entity.”

Updates – Ancillary Services Manual

■ Section 6.3.1. Bidding and Bid Selection

- Addition: “Availability Bids submitted for Resources engaged in Dual Participation shall reflect the capability available to the wholesale market, accounting for any obligation(s) to a distribution utility or other entity.”

■ Section 6.3.3. Responsibilities of Suppliers Scheduled to Provide Operating Reserves in the Day-Ahead Market

- Addition to include Suppliers engaged in Dual Participation