Establishing Zone J Operating Reserves

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Management Committee

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Agenda

- Background/Overview
- Market Design Proposal
- Proposed Tariff Revisions Overview
- Next Steps



Background



Previous Presentations

Date	Working Group	Discussion points and links to materials
01-08-19	ICAPWG/MIWG	Proposed schedule for accelerating implementation of Zone J operating reserves
01-15-19	ICAPWG/MIWG	Establishing a new Zone J reserve region with a 500 MW 10-minute and 1,000 MW 30-minute reserve requirement
01-24-19	ICAPWG/MIWG	Proposed operating reserve demand curve prices for the Zone J reserve products and the proposed tariff revisions for this initiative
03-04-19	ICAPWG/MIWG	Analysis of potential impact
03-13-19	BIC	Stakeholder vote: Establishing Zone J Operating Reserves



Background

- Establishing a separate Zone J Operating Reserves requirement was originally recommended in the 2017 State of the Market and 2018 Management Response to Analysis Group's Capacity Resource Performance in the NYISO Markets: An Assessment of Wholesale Market Options (Performance Assurance Management Response).
- Stakeholders also raised concerns regarding the current market design in connection with reviewing scarcity pricing outcomes during SCR/EDRP activations in summer 2018.
- The Zone J reserve requirement is one of three components of the 2019 More Granular Operating Reserves project.
 - The deliverable for the remaining two components (evaluating load pocket reserves and reviewing reserve performance) remains a Market Design Complete in Q3 2019.
 - This proposal addresses accelerating the implementation of the Zone J reserve requirement component for June 2019.
 - If the accelerated implementation of the proposed Zone J reserve requirements is not approved at this time, it will be folded back into the broader project and its associated timeline.

Background

- Creating a Zone J reserve region and associated reserve requirements has the potential to provide:
 - More efficient scheduling and procurement of resources.
 - Locationally specific market price signals for the necessary resource availability and flexibility to meet system reliability needs.
 - More efficient price signals during SCR/EDRP activations.
 - Produce incentive for investment in resources that can supply 10-minute and 30-minute reserve products.



Zone J Operating Reserve Market Design Proposal



Zone J Operating Reserve Procurement

- The NYISO proposes to establish a new NYC reserve region and procure 500 MW of 10-minute reserves and 1,000 MW of 30-minute reserves in Zone J, consistent with NYSRC reliability rules for NYCA reliability.
 - NYSRC Rule G.B.R.3 requires roughly 500 MW of 10-minute operating reserve in NYC.
 - Currently, SCUC produces a report which compares the amount of 10-minute reserve procured to the 500 MW requirement.
 - If this local reliability rule requirement is deficient, then the NYISO notifies Con Edison so that the transmission owner can take manual action to procure the necessary reserve.
 - The NYSRC rules, in Table C-2, require 500 MW of 10-minute operating reserve and 1,000 MW of 30-minute operating reserves be procured in NYC for NYCA reliability.
 - Currently, if these requirements are not satisfied by the procurement of other existing reserve requirements, NYISO Operations, working with Con Edison, may take manual action to procure the necessary reserves.
 - If a deficiency of this reserve requirement is forecasted, NYISO would evaluate activating SCR/EDRP resources, among other actions.



Zone J Operating Reserve Pricing

- The NYISO is proposing to establish operating reserve demand curves that assign a \$25/MWh value to the proposed reserve requirements for Zone J.
 - The NYISO recognizes that the activation of SCR/EDRP resources to protect Zone J reserves represents a \$500/MWh action.
 - This implies that a \$500/MWh demand curve price for Zone J reserve products could, in the longer-term, be an appropriate
 value to consider.
- To facilitate an implementation for June 2019, the NYISO is not proposing to revise the Zone J reserve requirements during TSA events.
 - Use of a \$500/MWh demand curve price, absent further evaluating the appropriate reserve requirements during TSA events, could result in unnecessarily high pricing outcomes during such events.
 - Similar to the approach that was taken with the implementation of the SENY reserve region, the NYISO proposes to initially implement a \$25/MWh demand curve price for Zone J reserves as part of an accelerated June 2019 implementation.
 - Potential revisions to the Zone J reserve demand curve prices and the treatment of the Zone J reserve requirements during TSA events will be further evaluated and discussed in the broader context of the 2019 More Granular Operating Reserves project.
 - Implementing a Zone J reserve region with a \$25/MWh demand curve value represents an incremental enhancement and would support more efficient pricing during Zone J SCR/EDRP activations.



Proposed Tariff Revisions



Proposed Tariff Revisions

- Changes to the following tariff sections are proposed to address the establishment of a Zone J reserve region and associated reserve requirements:
 - MST Section 2.15
 - MST Rate Schedule 4 (Section 15.4)
 - MST Rate Schedule 6 (Section 15.6)
 - OATT Section 1.15
- The proposed tariff revisions are posted with today's meeting materials.



Proposed Tariff Revisions

- MST Section 2.15: Definitions
 - Proposed changes to the term "Operating Reserve Demand Curve" to remove unnecessary language that is already addressed in Section 15.4.7 of Rate Schedule 4 of the MST.
- OATT Section 1.15: Definitions
 - Proposed removal of unnecessary duplication of language between the MST and OATT by instead providing crossreferences to the MST definitions of "Operating Reserves" and "Operating Reserve Demand Curve".



MST 15: Rate Schedules

- Proposed changes within Rate Schedule 4 (MST Section 15.4) and Rate Schedule 6 (MST Section 15.6):
 - Proposed Revisions to MST Rate Schedule 4
 - Revisions to reserve region descriptions and reserve clearing price calculations to account for a NYC reserve region (Sections 15.4.1.1, 15.4.4.1, 15.4.5.1, 15.4.6.1, and 15.4.7)
 - Revisions to scarcity pricing rules to account for a NYC reserve region (Section 15.4.6.1.1)
 - Establishment of Operating Reserve Demand Curves for a NYC reserve region (Section 15.4.7)
 - Ministerial revisions (Sections 15.4.1.2.2, 15.4.1.2.3, 15.4.2.1, and 15.4.6.1.1)
 - Proposed Revisions to Rate Schedule 6
 - Revisions to the payment calculations for Quick Start Reserve providers to utilize NYC reserve prices (Section 15.6.5.1)
 - Ministerial revision (Section 15.6.4)



Next steps



Zone J Operating Reserves Timeline

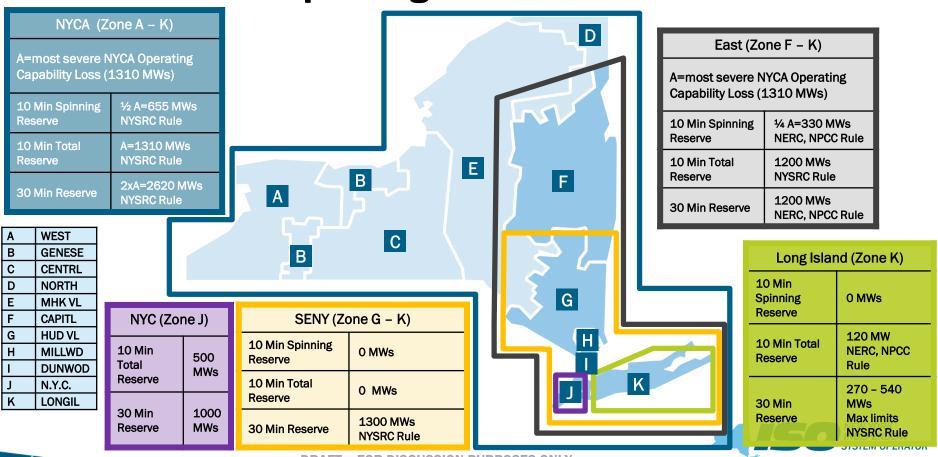
- Proposed schedule for accelerated deployment:
 - March 2019
 - ✓ Seek stakeholder approval at BIC.
 - ✓ Seek stakeholder approval at MC.
 - April 2019
 - Assuming stakeholder approval, seek Board of Directors approval.
 - Assuming approval by the Board of Directors, file tariff revisions with FERC seeking approval to implement in June 2019.



Appendix



NYCA Operating Reserves with Zone J



Feedback/Questions?

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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



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