

Con Ed/PSEG Wheel Replacement Protocol - Update

David Edelson

Manager – Operations Performance and Analysis

MIWG

April 24, 2017, KCC



DRAFT – FOR DISCUSSION PURPOSES ONLY

©COPYRIGHT NYISO 2017. ALL RIGHTS RESERVED

Agenda

- **FERC Filing Status.**
- **Market Changes on May 1, 2017.**
- **Market-to-Market Changes on May 1, 2017.**
- **Other Market-to-Market Changes – Deactivated Re-dispatch Coordination Flowgates.**

FERC Filing Status

FERC Filing Status

- **NYISO and PJM jointly filed JOA revisions for the ConEd/PSEG Wheel Replacement Protocol on January 31, 2017.**
 - See MC Materials from December 21, 2016.
http://www.nyiso.com/public/webdocs/markets_operations/committees/mc/meeting_materials/2016-12-21/2nd%20REPOSTED%20Version%20-%20Coordinating%20without%20the%20ConEd-PSEG%20Wheel%20Dec.pdf
- **FERC staff issued an order accepting the proposal as filed, effective May 1, 2017, subject to refund and further commission order.**
- **NYISO and PJM plan to implement the new protocols, as filed, on May 1, 2017.**

Market Changes

Market Changes beginning 5/1/2017

Con Ed Wheel Election

- The Con Ed Wheel election will no longer exist

Interchange

- NYISO's Day-Ahead and Real-time Markets will model NY-PJM AC interchange using the following distribution:
 - 32% over the Ramapo Interface: 16% 3500 PAR, 16% 4500 PAR
 - 21% over ABC Interface: 7% A PAR, 7% B PAR, 7% C PAR
 - 15% over JK Interface: 5% E PAR, 5% F PAR, 5% O PAR
 - If a PAR is out of service, interchange is not re-distributed over the remaining PARs, but instead will be modeled over the free-flowing Western Ties. The Interchange Distribution percentages referenced above will be described in a posting on NYISO's website.

Operational Base Flow (OBF)

- NYISO's Day-Ahead and Real-time Markets will model the OBF of 400 MWs in its market models using the following distribution:
 - 400 MW into NY over ABC Interface: 25% A PAR, 37.5% B PAR, 37.5% C PAR
 - 400 MW into PJM over JK Interface: 33.3% E PAR, 33.3% F PAR, 33.3% O PAR
 - If a PAR is out of service, the OBF is reduced across both the ABC and JK Interfaces. The methodology used to reduce the OBF for PAR outages will be described in a posting on NYISO's website.

Market-to-Market (M2M) Changes

M2M Changes beginning 5/1/2017

- **The A, B, C PARs (at the ABC Interface), and the E, F, O PARs (at the JK Interface) will be included in the M2M PAR Coordination that already includes the Ramapo PARs.**
 - NYISO has 42 existing PAR-qualified flowgates
 - PJM has 30 existing PAR-qualified flowgates
 - Congestion from these existing PAR-qualified flowgates will be reflected to each of the NY-NJ PARs as part of M2M PAR Coordination
- **The M2M target flows on the eight NY-NJ PARs will be calculated per the revised formulas in the JOA, including the new Interchange distribution percentages and the OBF.**
- **NYISO and PJM are currently working through the flowgate qualification process, as prescribed in the JOA, to add new PAR-qualified flowgates to the M2M program. NYISO will come back to MPs after agreement with PJM has been reached on new PAR flowgates.**

M2M – Deactivated Re-dispatch Coordination Flowgates

M2M – Deactivated Re-dispatch Coordination Flowgates

- On February 8, 2017, unrelated to the Con Ed Wheel Replacement effort, NYISO and PJM mutually agreed to deactivate* the following flowgates from M2M Generator Re-dispatch Coordination:

Flowgate ID	Monitoring RTO	FLOWGATE NAME
7004	NYISO	CENTRAL EAST - VC BASE CASE
90078	NYISO	CENTRAL EAST BASE CASE
25029	PJM	PJM 5004/5005 BLCK_OAK-BEDINGTN_500_544
25030	PJM	PJM 5004/5005 CONEMAUG-KEYSTONE_500_5003
25031	PJM	PJM 5004/5005 MT_STORM-PRUNYTN_500_510

- Neither NYISO nor PJM have effective Generator redispatch capability to relieve these constraints
- These flowgates remain active as M2M PAR Coordinated Flowgates

* See section 4 of Schedule D in the NYISO-PJM Joint Operating Agreement for procedures describing the criteria for removal of M2M flowgates.

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