

M2M Coordination: Storm Watch Update and JOA Amendments

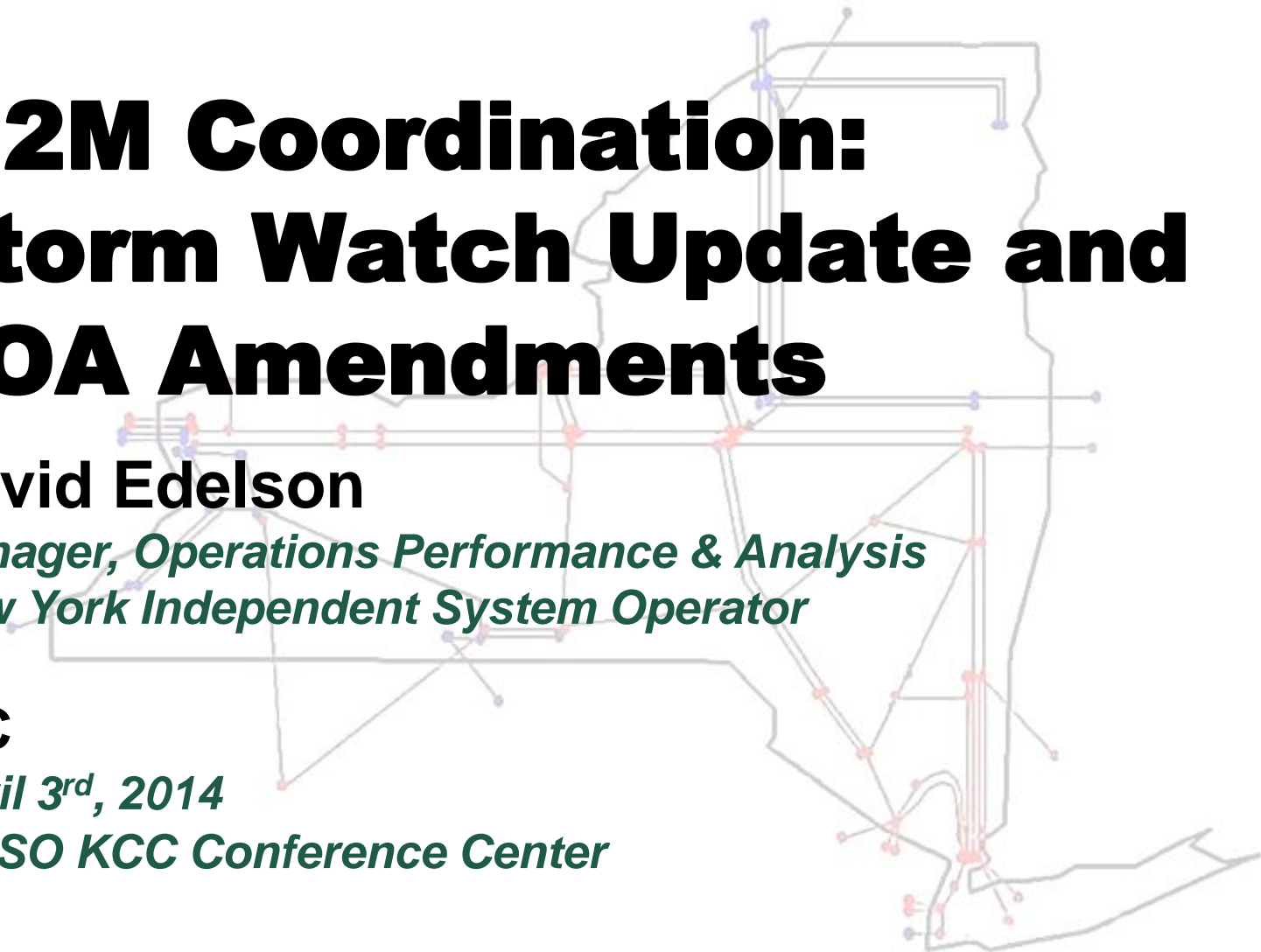
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BIC

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Agenda

- ◆ **Background**
- ◆ **M2M Storm Watch Proposal**
- ◆ **JOA Updates**
- ◆ **Timeline**

Background

- ◆ **PJM requested suspension of Storm Watch flowgates for M2M coordination on July 12th, 2013.**
 - *Storm Watch Flowgates have not been subject to M2M coordination since that time.*

- ◆ **NYISO & PJM have worked together to identify areas of improvement in managing the flows on the ABC, JK, and 5018 interfaces to address the large generation changes that occur during a Storm Watch.**

Proposal

- ◆ **NYISO & PJM are proposing new Storm Watch M2M operating requirements and M2M Ramapo PAR settlement rules that encourage effective regional management of system congestion by managing flows on common interfaces during a Storm Watch.**
- ◆ **The overall philosophy of the proposed changes is that as long as the Storm Watch operating requirements are being followed (i.e. actions which can be taken are being taken to maintain flows in southeast NY), then M2M Ramapo PAR settlements should not apply.**

JOA Updates – OATT Section 35 (1)

◆ Overview of changes:

- *Define Storm Watch*
- *Establish M2M operating requirements during a Storm Watch.*
- *Define “available PAR”.*
- *Describe exceptions.*
- *Establish M2M Ramapo PAR settlement criteria during a Storm Watch.*
- *Unrelated to Storm Watches – Describe interchange factors when one Ramapo PAR is out of service.*

JOA Updates – OATT Section 35 (2)

- ◆ **Section 35.2 – Definitions**
 - *Add definition of Storm Watch, as presently described in NYISO MST.*
 - **Storm Watch: Actual or anticipated severe weather conditions under which region-specific portions of the NYS Transmission System are operated in a more conservative manner by reducing transmission transfer limits.**

- ◆ **Schedule D, 8.1 – Information used to calculate M2M settlements**
 - *Add statement that both parties are excused from incurring an M2M settlement if they satisfy the operating requirements laid out in Schedule D, 8.3.1.*

JOA Updates – OATT Section 35 (3)

- ◆ **Schedule D, 8.3.1 – Describe the operating requirements for RTOs during a Storm Watch:**
 - ***Operating requirement for ABC***
 - **Maintain flow on ABC interface within bandwidth, otherwise take at least two taps every 15-minutes on each available Goethals and/or Farragut PAR to increase flow to NY.**
 - ***Operating requirement for JK***
 - **Maintain flow on JK interface within bandwidth, otherwise take at least two taps every 15-minutes on each available Waldwick PAR to decrease flow to PJM.**
 - ***Operating requirement for 5018***
 - **Maintain flow on Ramapo PARs at or above Ramapo Target into NY, otherwise take at least two taps every 15-minutes on each available Ramapo PAR to increase flow to NY.**

JOA Updates – OATT Section 35 (4)

- ◆ **Schedule D, 8.3.1 – Define the conditions under which a PAR is considered unavailable to satisfy these operating requirements:**
 - *PAR is not operational or cannot be moved (stuck).*
 - *PAR is only capable of feeding radial load.*
 - *PAR is tapped out.*
 - *Taking a tap would use a tap position that the RTOs are permitted to reserve for contingency response.*
 - *Asset owner has restricted PAR tap movements and RTOs have not yet agreed to expand the relevant bandwidths.*

JOA Updates – OATT Section 35 (5)

- ◆ **Schedule D, 8.3.1 – Describe exceptions to Storm Watch operating requirements:**
 - *First RTO denies a tap request by second RTO that is necessary for second RTO to satisfy its obligations during a Storm Watch event.*
 - *Taking a tap would cause an overload of a common transmission system facility.*
 - *First RTO cannot take a tap until the second RTO takes a tap because first RTO taking a tap without a supporting tap from second RTO would cause an overload on first RTO's system.*

JOA Updates – OATT Section 35 (6)

- ◆ **Schedule D, 8.3.1 – Describe when an RTO shall not incur an M2M Ramapo PAR settlement.**
 - ***PJM will not incur an M2M Ramapo PAR settlement if:***
 - PJM satisfies the Storm Watch operating requirement for JK, OR
 - NYISO does not satisfy the Storm Watch operating requirements for ABC or 5018

 - ***NYISO will not incur an M2M Ramapo PAR settlement if:***
 - NYISO satisfies the Storm Watch operating requirements for ABC and 5018

 - ***Will be determined in Real-Time on a nominal 5-minute basis.***

JOA Updates – OATT Section 35 (7)

- ◆ **Schedule D, 7.2 – Add language to accommodate when one Ramapo PAR is out of service:**
 - *If one (but not both) of the Ramapo PARs is out-of-service, the amount of total interchange scheduled between PJM and NYISO over the AC tie lines shall remain below any value that results in the percentage of total scheduled interchange assigned to the 5018 line (excluding interchange that may be shifted to the ABC and JK lines) exceeding the rating of the in-service Ramapo PAR facilities.*
 - **Note: This addition is not related to the updates being made for Storm Watches. It represents the actual operating practice used during the past two outages of Ramapo PAR4500.**

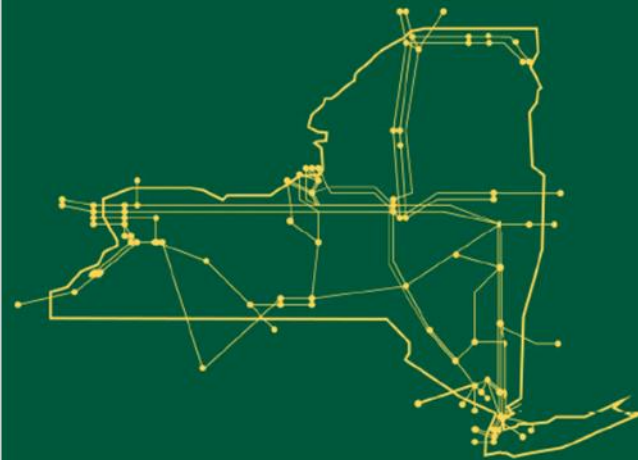
JOA Updates – OATT Section 35 (8)

- ◆ **Schedule D, 7.2.1 – Ramapo Target Value**
 - *Add language to the RamapoInterchangeFactor definition to accommodate when one Ramapo PAR is out of service. Under this condition, the RTOs will use 46% instead of 61% to distribute total scheduled interchange over the AC ties across the in-service Ramapo PARs.*
 - **Note: This addition is not related to the updates being made for Storm Watch events. It is consistent with the language FERC accepted in the since-expired waiver the two RTOs filed on May 1, 2013 during the outage of Ramapo PAR4500.**

Timeline

- ✓ **March 4 MIWG – Initial Update.**
- ✓ **March 25 MIWG – JOA Language.**
- ✓ **April 3 – Special BIC vote.**
- ◆ **April 11 – Special MC vote.**
- ◆ **NYISO Board review.**
- ◆ **FERC filing.**
- ◆ **June 1 - Implementation.**

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