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## NYISO Consumer Interest Liaison Weekly Summary

### February 1 – February 5, 2016

#### **Notices:**

- A [Redline](#) and [Clean](#) version of the **Installed Capacity Manual (M-04)** has been re-posted to the [NYISO Manuals & Guides webpage](#) under the 'Manuals>Under Review' folder.
- On February 1, 2016, NYISO efiled comments to the Environmental Protection Agency regarding the proposed Cross-State Air Pollution Rule Update for the 2008 Ozone National Ambient Air Quality Standards. (Document ID: EPA-HQ-OAR-2015-0500-0067). A copy of the [comments](#) is available for your use.
- The appeal period for the revisions to the **Ancillary Services Manual (M-02)** approved at the 1/13/16 BIC and the 1/14/16 OC meetings has concluded. The [new version](#) of the manual has been posted under the 'Manuals>Operations' folder on the [NYISO Manuals & Guides](#) webpage.
- On February 3, 2016, FERC issued a notice for a June 1, 2016 **technical conference** to discuss **policy issues related to the reliability of the Bulk-Power System**. The Commission will issue an agenda at a later date. Advance registration is not required, but is encouraged. Attendees may register at <https://www.ferc.gov/whats-new/registration/06-01-16-form.asp>

#### **Meeting Summaries:**

**Monday, February 1, 2016**

**Transmission Planning Advisory Subcommittee**

**Central East Voltage and Stability Analysis for TOTS Series Capacitors**

David Mahlmann of the NYISO presented the Voltage Collapse Limits and the Stability Limits updates with the completion of the upstate portion of the Transmission Owner Transmission Solutions (TOTS) projects. The upstate portion of the TOTS projects include:



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- *switchable series comp on Marcy –Coopers Corners 345 kV line*
- *switchable series comp on Fraser – Coopers Corners 345 kV line*
- *switchable series comp on Edic -Fraser 345 kV line*
- *Re-conductor 21 miles of Fraser –Coopers Corners 345 kV line*
- *A second 345 kV circuit from Ramapo to Rock Tavern*

Mr. Mahlmann noted the primary operational impact of these system enhancements will be to alter system impedances. This will shift flows from Central East lines to the circuits going south from Edic and Marcy. The net result of the impedance change will be a reduction in Central East flow and a corresponding reduction in the voltage collapse and stability limits. The analysis indicates that switching in the series capacitors will reduce Central East contributions to UPNY-SENY flows. When Hudson Valley transmission is binding, this allows higher transfers from Capital to SENY, with no significant change in the transfer capability from western and northern parts of the system into SENY.

Mr. Mahlmann led a review of the simplified one-line diagram and the definition for the Central East interface. The pre-project and post-project transfer limits were compared to illustrate the changes. Mr. Mahlmann explained that the Central East Voltage Collapse Limits consist of a set of base transfer limits, and multiple sets of derates that are applied to those base limits. Central East Stability Limits consist of a set of limits based on the dynamic reactive resources available in Central New York. The NYISO is proposing that there be minor adjustments to the current base Central East voltage collapse and stability limits and a new derate be applied to all when the series compensation is in service. Tables were provided to illustrate the changes to the equipment and the related penalties to the limits. A new 235 MW derate will be applied to the voltage collapse limit and a 250 MW derate will be applied to the stability limit when the series compensation is in service.

It was noted that the potential retirement of the Fitzpatrick station will not affect the analysis. The NYISO will bring this study to the March TPAS for recommendation of approval to the OC. To see the complete presentation, please go to:

[https://www.nyiso.com/secure/webdocs/markets\\_operations/committees/oc\\_tpas/meeting\\_materials/2016-02-01/03a\\_Central%20East%20-%20TPAS-SOAS%20-%20Final.pdf](https://www.nyiso.com/secure/webdocs/markets_operations/committees/oc_tpas/meeting_materials/2016-02-01/03a_Central%20East%20-%20TPAS-SOAS%20-%20Final.pdf)

### Study Scopes

#### Q#467

Tallgrass Solar Project Revised SRIS

Suffolk County 24.99MW

Sent to Operating Committee for approval

#### Q#496

Renovo Energy Center Project Full SRIS

Renovo, PA 480MW Summer 504MW Winter



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Sent to Operating Committee for approval

Q505

Ball Hill Wind Project SRIS  
Saint Lawrence County 100MW  
Sent to Operating Committee for approval

Studies Under Consideration for Recommendation for OC Approval

Q#461/462

East River 1/East River 2  
Sent to Operating Committee for approval

Q#467

Tallgrass Solar SRIS  
Sent to Operating Committee for approval

Q#490

Marcy South SPS SRIS  
Sent to Operating Committee for approval

Queue Process Improvements

Sara Keegan of the NYISO stated that the NYISO has posted an updated queue improvement chart that reflects the intended filing date of a number of revisions to Attachments S, X and Z of the OATT included in the Behind-the-Meter initiative. Ms. Keegan also noted that the NYISO will be discussing a new proposed transmission interconnection process with stakeholders at the February 5, 2016 joint TPAS/ESPGWG meeting. The NYISO anticipates including this proposed process in its Order 1000 compliance filing due on March 22.

Class Year 2015 Status

Steve Corey of the NYISO presented a status update for the Class Year 2015 (CY2015). There will be a meeting of the CY2015 Working Group on February 8, 2015. This meeting will include an update on the CY2015 study results. Steve also reported that, since the Deliverability Study identified that new System Deliverability Upgrades (SDUs) would be required on Long Island for the CY2015 projects to be fully deliverable, NYISO plans to initiate the Deliverability Study decision process as soon as possible after the working group meeting, which will determine whether additional SDU studies will be performed. This decision point was a relatively recent tariff change to the Class Year process.

**Tuesday, February 2, 2016**  
**Market Issues Working Group**



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AD14-14 – Price Formation Questions

Ethan Avallone of the NYISO presented the status update for the compliance filing to the November 20, 2015 FERC Order directing that all ISO/RTOs address several questions outlined by the Commission. The Commission asked questions regarding:

- *Fast-start resource pricing*
- *Commitments to manage multiple contingencies*
- *Look-ahead modeling*
- *Uplift allocation*
- *Transparency*

Each question generally asked about the ISO/RTO’s market implementation as it relates to each topic:

- How the current implementation functions
- Why the current approach was chosen
- Plans to improve upon the current implementation

The NYISO will file by March 4, 2016.

**Thursday, February 4, 2016**

**System Operations Advisory Subcommittee**

**NYISO Operations Report – January 2016**

**Peak Load**

The peak load for the month was 23,317 MW which occurred on Tuesday, January 19, 2015, HB18. Reserve requirements were as follows:

Reserve	10 Sync	Non-Sync	30 Min
Requirement	655	1,310	1,965
For Hour	1,346	3,320	6,171
DSASP Cont.	95	0	95

**Major Emergencies**

None

**Alert States** -- On 15 occasions Alert State was declared:

- 1– System Frequency – 1 Low/0 High
- 1 – ACE greater than (+ or -) 500MW
- 1 – Shortage of 10 Min Total Reserve
- 3 – Exceeding Central East Voltage Contingency Limit
- 3 – Exceeding Transient Stability Limit
- 1 – NYISO Computer Problem
- 5 – Emergency Transfer Declared

Alert state was declared 13 times during January of 2015



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### **Thunder Storm Alerts**

0 TSA was declared in October 2015 for a total of 0 hours

**Reserve Activations** – 9

**Emergency Actions** – None

**TLR3 Declared** – 0 for a total of 0 hours

### **Review of Proposed Drill Dates for 2016**

Jon Sawyer of the NYISO presented the proposed Drill dates for 2016. Mr. Sawyer listed the drills to be performed and the proposed dates for the drills. For specific information on the dates and drills, please log into the meeting materials for the SOAS for February 4, 2016 at:

[https://www.nyiso.com/secure/webdocs/markets\\_operations/committees/oc\\_soas/meeting\\_materials/2016-02-04/04\\_Proposed%20NYISO%20Drill%20Dates%202016.pdf](https://www.nyiso.com/secure/webdocs/markets_operations/committees/oc_soas/meeting_materials/2016-02-04/04_Proposed%20NYISO%20Drill%20Dates%202016.pdf)

### **Emergency Operations Manual (EOM) Revisions for BES and Other Updates**

Jon Sawyer of the NYISO presented the updates to the Emergency Operations Manual (EOM) to incorporate the NERC Bulk Electric System (BES) requirements and other updates. Mr. Sawyer listed the specific revisions to the manual, including ministerial changes. The EOM is available on the NYISO web site for review and comments. The NYISO will bring the manual, after addressing stakeholder feedback, to the March SOAS for discussion with stakeholders and a recommendation to forward the EOM to the OC for approval. To see the proposed EOM revisions, please go to:

[https://www.nyiso.com/public/committees/documents.jsp?com=oc\\_soas&directory=2016-02-04](https://www.nyiso.com/public/committees/documents.jsp?com=oc_soas&directory=2016-02-04)

### **Central East Voltage and Stability Analysis for TOTS Series Capacitors**

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It was noted that the potential retirement of the Fitzpatrick station will not affect the analysis. The study was presented previously to the SOAS on February 1, 2016 meeting. The NYISO will bring this study to the March TPAS for recommendation of approval to the OC. To see the complete presentation, please go to:

[https://www.nyiso.com/secure/webdocs/markets\\_operations/committees/oc\\_tpas/meeting\\_materials/2016-02-01/03a\\_Central%20East%20-%20TPAS-SOAS%20-%20Final.pdf](https://www.nyiso.com/secure/webdocs/markets_operations/committees/oc_tpas/meeting_materials/2016-02-01/03a_Central%20East%20-%20TPAS-SOAS%20-%20Final.pdf)

### **Friday, February 5, 2016**

#### **Joint Electric System Planning Working Group/Transmission Planning Advisory Subcommittee**

##### **Order 1000 Compliance Filing Related to Interconnection Issues – Proposed Transmission Interconnection Process**

Thinh Nguyen of the NYISO presented the proposed transmission interconnection process for FERC Order 1000 compliance. FERC's Order directed the NYISO to modify its existing interconnection process so that incumbent and non-incumbent transmission projects seeking cost recovery through NYISO processes must be subject to the same interconnection requirements. NYISO's proposal seeks to optimize efficiency of existing processes and allow it to evaluate projects based on the proposed technology/ electrical characteristics vs. the characteristics of the proposing entity. The NYISO proposes to develop a new Transmission Interconnection Process (TIP), while maintaining the Small Generator Interconnection Procedures and Attachments X and S. The proposed TIP would apply to a transmission project, regardless of the entity that proposes it and regardless of the project's intended cost recovery mechanism with two exceptions:

- *Project with de minimis impact will not be required to go through the TIP*
- *Controllable transmission that seeks UDRs must go through Attachments X and S*

Mr. Nguyen described the following steps to the TIP process:

- *Transmission Interconnection Application*
- *Scoping Meeting*
- *Optional Feasibility Study*



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- *System Impact Study*
- *Facilities Study*
- *Cost Responsibility for Network Upgrades*
- *Interconnection Agreement*

Mr. Nguyen explained how the TIP projects would be modeled in interconnection base cases and compared it to the method used for Other Transmission cases (unless subject to Att. X and S). A transition rule would be implemented for projects in the queue before the effective date of the proposed TIP which will seek to transition projects without subjecting the projects to unnecessary rework or delay. The NYISO will consider comments received during and after the presentation prior to a follow-up presentation scheduled for a March 7, 2016 joint ESPWG/TPAS meeting. There will be a review of the proposal at the March 17, 2016 Operating Committee prior to a March 22, 2016 filing. To see Mr. Nguyen's complete presentation, please go to:

[http://www.nyiso.com/public/webdocs/markets\\_operations/committees/bic\\_espwg/meeting\\_materials/2016-02-05/02\\_Proposed%20Transmission%20Interconnection%20Process.pdf](http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_espwg/meeting_materials/2016-02-05/02_Proposed%20Transmission%20Interconnection%20Process.pdf)

#### Public Policy Transmission Need: AC Transmission

Zach Smith of the NYISO led a brief review of the NYISO Public Policy Process (PPP) and provided background on the case at hand resulting from the August 1, 2014 NYISO letter inviting stakeholders to submit proposed transmission needs driven by Public Policy Requirements. The New York State Public Service Commission (PSC) staff issued a final report in September 2015 in the PSC AC Transmission proceedings (13-E-0488) recommending new transmission facilities across the Central East and UPNY/SENY interfaces. On December 17, 2015, the PSC issued an order addressing Public Policy Requirements and identifying the AC Transmission Public Policy Transmission Need (PPTN). The AC Transmission PPTN consists of Segment A, which addresses the Central East interface, and Segment B, which addresses the UPNY/SENY interface. Mr. Smith provided diagrams to illustrate the locations of the interfaces. Sufficiency criteria and evaluation criteria as defined by the PSC order were discussed. The Sufficiency Base Case will be the same base case that was used in the PSC AC Transmission proceeding. Mr. Smith explained how stakeholders could obtain powerflow base cases by submitting a Critical Energy Infrastructure Information request. On February 29, 2016, the NYISO will solicit Public Policy Transmission Projects and Other Public Policy Projects with a 60 day solicitation window. Developer qualification information must be submitted no later than 30 days after the solicitation for solutions. The NYISO October 8, 2015 AC Transmission Technical Conference Presentation was included in an appendix for additional reference. To see Mr. Smith's complete presentation, please go to:

[http://www.nyiso.com/public/webdocs/markets\\_operations/committees/bic\\_espwg/meeting\\_materials/2016-02-05/03\\_AC%20Transmission\\_PPTN.pdf](http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_espwg/meeting_materials/2016-02-05/03_AC%20Transmission_PPTN.pdf)



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#### Update the Reliability Planning Process Manual and TB185

Dana Walters of the NYISO presented proposed revisions to the Reliability Planning Process (RPP) manual and Technical Bulletin 185 (TB185). Mr. Walters identified the manual sections to be revised to reflect the impending changes associated with Gap Solutions and Reliability Must Run (RMR) agreements, while TB185 will be revised to reflect changes to the Generator Deactivation Process and the Gap Solution Process. He also noted that manual sections 3, 4, and 5 will be revised to address updating Base Cases and Reliability Needs. Mr. Walters has posted clean and redline versions of the RPP manual and TB185 with the February 5, 2016 ESPWG meeting material in anticipation of a page by page review of the revisions at the February 25, 2016 ESPWG. The NYISO will seek approval for the revisions at the March 17, 2016 Operating Committee. To see Mr. Walters' presentation, please go to:

[http://www.nyiso.com/public/webdocs/markets\\_operations/committees/bic\\_espwg/meeting\\_materials/2016-02-05/04\\_RPP\\_Manual\\_Revisions.pdf](http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_espwg/meeting_materials/2016-02-05/04_RPP_Manual_Revisions.pdf)

#### 2016 RNA Preliminary Schedule

Bill Lamanna of the NYISO presented the preliminary schedule for the 2016 Reliability Needs Assessment (RNA). Mr. Lamanna provided the following schedule:

##### February

- Kick off 2016 RNA and present the timeline to ESPWG
- Present draft revised RPP manual to ESPWG

##### March

- Propose Assumptions Matrix (including topology)
- Finalize revised RPP manual (OC approval)

##### April

- Lock down Assumptions Matrix

##### May

- Discuss scenarios to be included in the RNA

##### June

- Release the preliminary Reliability Needs

##### July

- Release draft RNA report without updated LTPs and generator status updates
- TOs present updated LTPs in response to the preliminary Reliability Needs
- Review status of generators in outage states and apply base case inclusion rules
- Perform assessment with the updated LTPs and reflecting generator outage states

##### August

- Release revised Reliability Needs and updated draft RNA report

##### October

- OC / MC discussion and action on draft RNA; MMU review of draft RNA





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### November

- Submit draft RNA for Board of Directors approval

To see Mr. Lamanna's presentation, please go to:

[http://www.nyiso.com/public/webdocs/markets\\_operations/committees/bic\\_espwg/meeting\\_materials/2016-02-05/Agenda%2005\\_2016%20RNA%20Preliminary%20Schedule.pdf](http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_espwg/meeting_materials/2016-02-05/Agenda%2005_2016%20RNA%20Preliminary%20Schedule.pdf)

## **FERC Filings**

There were no NYISO filings to FERC for this week

## **FERC Orders**

### **February 5, 2016**

FERC letter order accepting NYISO's December 1, 2015, compliance filing of a two-week advance notification for implementation of tariff revisions regarding Coordinated Transaction Scheduling between NYISO and ISO New England Inc

### **Link to FERC Filings and Orders:**

[http://www.nyiso.com/public/markets\\_operations/documents/tariffviewer/index.jsp](http://www.nyiso.com/public/markets_operations/documents/tariffviewer/index.jsp)