NYISO Consumer Interest Liaison Weekly Summary

August 17 – August 21, 2020

Notices:

- *The NYISO's Market Training Team will be offering* ***MT-201 New York Market Orientation Course (NYMOC) September 15-17, 2020****. Due to circumstances surrounding COVID 19, this course will be presented via WebEx and will not be in-person instructor led as originally planned. Complete and submit your* ***registration*** *by close of business on Wednesday, September 9, 2020*
- *The draft version of new* ***TB-251 Regional Load Growth Factors in the ICAP Market Load Forecast*** *has been posted to the* ***Manuals, Technical Bulletins & Guides webpage****, under the Technical Bulletins, Under Review folder.*
- *On August 21, 2020, the New York Independent System Operator filed with the New York State Public Service Commission,* ***comments on materials related to July 10, 2020 Technical Conference on Resource Adequacy Matters****. View a copy of the filing* ***here****.*

Meeting Summaries:

Wednesday, August 19, 2020

Joint Installed Capacity/Market Issues/Price Responsive Load Working Group

Hybrid Storage: Proposed Energy market tariff revisions for Co-located Storage Resources (CSR)

Kanchan Upadhyay of the NYISO presented proposed tariff revisions to reflect market participation rules of the Co-located Storage Resource (CSR) proposal. Redline tariff sections were provided with the meeting materials.

Ms. Upadhyay led an overview of the CSR market design for reference.

Changes made to the tariff definitions were detailed. The terms Co-located Storage Resources and CSR Scheduling Limits were defined and discussed with stakeholders. The definition for Out-of-Merit was revised to add;

"The NYISO may also use Out-of-Merit to set CSR Scheduling Limits for specified time periods to meet Load and/or reliability requirements that differ from or supplement the ISO's security constrained economic commitment and/or dispatch."

Changes to Section 4 of the Services Tariff were noted for Sections, 4.1, 4.2.1.3, 4.4.1.2, and 4.4.2.1. Proposed changes include:

- *Co-located Storage Resources can each offer all of their available capability into the Day-Ahead and Real-Time Markets. The ISO will account for the CSR Scheduling Limits in the schedules and dispatch it issues to CSR Generators.*
- *A Generator with a real time physical operating problem that makes it impossible for it to operate in the bidding mode in which it was scheduled Day-Ahead or to achieve or comply with applicable operating parameters or requirements should notify the ISO.*
    - *NYISO Operations should be informed if a CSR Scheduling Limit needs to be reduced in real-time.*

Ms. Upadhyay noted stakeholder feedback for consideration. The NYISO will return to a future ICAP/MIWG meeting to present additional updates to the tariff language. To see the complete presentation, please go to:
https://www.nyiso.com/documents/20142/14617012/02_Hybrid%20Storage%20Energy%20tariff%20ICAPWG%20MIWG%2008.19.20%20draft%20final.pdf/a6b81cb1-fe9a-72cd-2a8f-75befefc4afa

Hybrid Storage: Proposed CRIS and Interconnections tariff revisions for Co-located Storage Resources (CSR)

Amanda Myott and Sara Keegan of the NYISO presented proposed Capacity Resource Interconnection Service (CRIS) and Interconnection tariff revisions for Co-located Storage Resources CSR). Ms. Myott led a review of the market design for CSRs for stakeholder reference.

The rules for CRIS and Interconnection for CSRs were discussed with stakeholders. Examples of interconnections were provided to illustrate the CRIS and ERIS (Energy Resource Interconnection Service) amounts that resources would be eligible to receive.

Sara Keegan continued the presentation with a review and discussion of the proposed tariff changes found in the OATT Attachments S, X and Z.

The NYISO will return to a future ICAP/MIWG meeting to present proposed revisions to additional sections of the tariff. To see the complete presentation, please go to:
https://www.nyiso.com/documents/20142/14617012/03_Hybrid%20Storage%20Interconnection%20tariff%20ICAPWG%20MIWG%2008.19.20_FINAL.pdf/dbae9003-8314-e5c0-d0c3-55a7d6384cec

ESR Bidding Rules for ICAP Suppliers with an Energy Duration Limitation

Sarah Carkner of the NYISO presented the draft tariff revisions in MST Sec. 5.12.7, corresponding to the DAM bidding proposal for Energy Storage Resources (ESR) with an Energy Duration Limitation (EDL).

Ms. Carkner reviewed the update to Section 5.12.7 of the MST, which specifies that ESRs with an EDL to Bid or schedule a Bilateral for their full injection range for all hours during the Peak Load Window, or notify the NYISO of a derate, and to bid their full withdrawal range for all hours outside of the Peak Load Window, or notify the NYISO of a derate.

Ms. Carkner reviewed the Availability Calculation and provided examples of actions that would and would not meet the Energy Level Availability value of the supplier.

The NYISO is seeking to bring the proposed revisions to MST 5.12.7 to an upcoming BIC and MC for voting. The ICAP Manual will be updated later this year or in early 2021 to accommodate the

Expanding Capacity Eligibility rules. To see the complete presentation, please go to:
https://www.nyiso.com/documents/20142/14617012/04_ESR%20Bidding%20for%20ICAP%20Suppliers%20with%20Energy%20Duration%20Limitations.pdf/1791ccfd-9b3f-c03f-b309-abafe8641eee

Thursday, August 13, 2020

Joint Electric System Planning Working Group/Transmission Planning Advisory Subcommittee

Economic Planning CARIS 2 Schedule

Nischal Rajbhandari of the NYISO presented the schedule for the 2020 CARIS (Congestion Assessment Resource Integration Study) Phase II study. The Final 2019 CARIS Phase 1 report and appendix were approved by the NYISO Board of Directors on July 21, 2020.

The database development assumptions will be presented to stakeholders for review at the September 24, 2020 ESPWG. The preliminary results are scheduled for presentation at the October 23, 2020 ESPWG/TPAS meeting, with final results following on November 19, 2020.

To see the complete presentation, please go to:
https://www.nyiso.com/documents/20142/14682221/02%20Economic_Planning_Update.pdf/04b4a618-c815-b962-49c4-8975568fab8b

Economic Planning: Process Review for Improvement

Jason Frasier of the NYISO presented the process for improvement of the Economic Planning Process. The Economic Planning Process consists of the Congestion Assessment Resource Integration Study (CARIS) Phase I and Phase II.

Mr. Frasier reviewed each section of the CARIS I and II process to generate stakeholder discussion and feedback:

- *Base Case Assumptions*
- *Base Case Reliability Screening*
- *Study Period*
- *Number of Transmission Paths Evaluated*
- *Generic Solutions*
- *ICAP Metric*
- *Voting Criteria by Project Beneficiaries*
- *ISO Economic Study Benchmark*
- *Planning Process Alignment*
- *Public Information Session*
- *Scenario Analysis*
- *Enhanced Metrics*
- *Future Applications of Economic Analysis*

Mr. Frasier noted stakeholder feedback for consideration and encouraged written comments for further discussion as the review progresses. Feedback received will be presented for discussion at the August 31, 2020 ESPWG/TPAS meeting at which time the NYISO will present Economic Planning conceptual improvement proposals.

To see the complete presentation, please go to:
https://www.nyiso.com/documents/20142/14682221/03%20Economic_Planning_Process_Improvement.pdf/cbb77d3d-0cb1-f70c-4e35-0870ea0c6f4f

2020 RNA 70x30 Scenarios Results Presentation

Laura Popa, Michael Welch, and Keith Burrell of the NYISO presented the results of the 70X30 Scenarios in the 2020 Reliability Needs Assessment (RNA). Ms. Popa provided a review of the background and purpose of RNA scenarios. The scenarios are informational only and are used to augment the effort with reliability perspectives on potential system changes undertaken to meet state policy goals.

Mr. Welch continued the discussion with a presentation of the results for Resource Adequacy. Mr. Welch detailed the assumptions and steps taken for the study and provided the results for discussion with stakeholders. Results were provided and discussed in detail for three sensitivities:

- *Nuclear Retirement Sensitivity*
- *Energy Storage Sensitivity*
- *Renewable Curtailments*

Mr. Welch summarized the key takeaways for Resource Adequacy results:

- The NYCA system is reliable when adding new resources, but becomes unreliable as existing fossil generators are removed from service
- Retirement of nuclear units may require additional (or removal of less) fossil fuel generation in order to have a reliable system
- Modeling ESRs provides a benefit to the system by allowing for additional units to be retired, subject to certain limitations
- Alleviating the local transmission constraints that cause renewable curtailments, while beneficial from an annual energy production perspective as shown in CARIS, does not offset the need for dispatchable generation to meet reliability requirements at peak load

Next, Mr. Burrell detailed the assumptions and results for Transmission Security. The key takeaways for Transmission Security results include:

- As the thermal loading issues are observed in a peak load case with a high penetration of land-based wind, off-shore wind, and solar, as well as in a peak case without these resources, additional dispatchable resources would be needed in the area to address thermal reliability criteria violations
- The amount of necessary additional dispatchable resources varies from approximately 650 MW in Case 1 to 750 MW in Case 2, determined by adding generic resources to deficient locations

To see the complete presentation, please go to:
https://www.nyiso.com/documents/20142/14682221/04%20RNA_70x30ScenariosResults.pdf/86d45799-475d-7774-58aa-1fcd7d5e157b

2020 RNA Transmission Security Status-Quo Scenario Results

Keith Burrell of the NYISO presented the results of the Transmission Security Status-Quo Scenario. Scenario models are variations of the 2020 RNA Base Cases, unless otherwise identified and are provided for information only. Mr. Burrell provided the major assumptions as:

- *Load is the 2020 Gold Book statewide coincident peak for 2030*
- *Removal of all the proposed transmission and generation projects that met 2020 RNA 1st pass Base Case Inclusion Rules as presented at June 19 ESPWG/TPAS*
- *Removal of generators that require modification to comply with DEC's Peaker Rule*
    - *2023: 997 MW in Zone K, 69 MW in Zone G, in 2023*
    - *2025: additional 235 MW in Zone K*

The results indicate there are no steady state voltage Reliability Criteria violations identified on the Bulk Power Transmission Facilities (BPTF) for N-0, N-1, or N-1-1 conditions. Also, there are no

thermal Reliability Criteria violations for N-0 or N-1 on the BPTF. Mr. Burrell summarized the Thermal Reliability Criteria violations that were observed for the N-1-1 condition.
To see the complete presentation, please go to:
https://www.nyiso.com/documents/20142/14682221/05%20TransmissionSecurityStatusQuoScenarioResults.pdf/299a8305-8cb5-4ae9-99d9-68acfb03f1a0

2020 RNA Draft 1 Report
Laura Popa and Keith Burrell of the NYISO presented the Draft 2020 Reliability Needs Assessment (RNA). The RNA is the first of two main components of the Reliability Planning Process (RPP). The RNA assesses the reliability of the New York Bulk Power Transmission Facilities (BPTFs) as the foundation study used in the development of the NYISO Comprehensive Reliability Plan (CRP). Ms. Popa led a review of each section of the RNA report while noting stakeholder feedback. Ms. Popa highlighted a new section of the report, "*A Grid in Transition: Reliability Gap Analysis".* It was noted that the *"Observations and Recommendations"* section will be completed for the final report. To see the Draft 2020 RNA report, please go to: https://www.nyiso.com/espwg?meetingDate=2020-08-20

FERC Filings

August 18, 2020

NYISO petition requesting the Commission issue a declaratory order to confirm that NYTOs possess a federal right of first refusal to build, own, and recover the costs of upgrades to their transmission facilities that is permitted under Order No 1000

FERC Orders

There were no FERC Orders issued to the NYISO for this week.

Filings and Orders:

http://www.nyiso.com/public/markets_operations/documents/tariffviewer/index.jsp