

**Minutes**  
**New York State Reliability Council, LLC (NYSRC)**  
**Executive Committee (EC) Meeting No. 233**  
**September 14, 2018**  
**Albany Country Club**  
**300 Wormer Road, Voorheesville, NY 12186**

**Members and Alternates**

**In Attendance:**

Roger Clayton, P.E.	Unaffiliated Member – EC Chair, RRS Chair, RCMS Chair
Mayer Sasson	Consolidated Edison Co. of NY, Inc. – Member, Vice Chair
George Loehr	Unaffiliated Member
George Smith, P.E.	Unaffiliated Member
Bruce Ellsworth, P.E.	Unaffiliated Member
Frank Pace	Central Hudson Gas & Electric – Member
Mariann Wilczek	PSEGLI – ICS Chair – Alternate Member
Rick Brophy	NYSEG and RG&E – Alternate Member
Mark Domino, P.E.	National Grid, USA- Member
Sunil Palla	New York Power Authority – Member
Mike Mager	Large Consumer - Member
Mark Younger	Hudson Energy Economics - Wholesale Seller - Alternate Member
Chris Wentlent	Municipal & Electric Cooperative Sector – Member

**Other Attendees:**

Paul Gioia, Esq.	Whiteman Osterman & Hanna, LLP – NYSRC Counsel
Al Adamson	NYSRC Treasurer and Consultant – Phone
Phil Fedora	Northeast Power Coordinating Council, Inc. (NPCC)
Carl Patka	New York Independent System Operator (NYISO)
Emilie Nelson	New York Independent System Operator (NYISO)
Rana Mukerji	New York Independent System Operator (NYISO)
Josh Boles	New York Independent System Operator (NYISO) - Phone
Zack Smith	New York Independent System Operator (NYISO)
Rana Mukerji	New York Independent System Operator (NYISO)
Herb Schrayshuen	NYSRC EC Secretary
Henry Chao	Quanta Technology
Yi Hu	Quanta Technology
Scott Leuthauser	Hydro Quebec – Phone

“\*” Denotes part-time participation in the meeting

**1. Introduction** – R. Clayton, EC Chair called the NYSRC Executive Committee Meeting No. 233 to order at 9:30 a.m. on September 14, 2018. A quorum of 13 Members and Alternate Members of the NYSRC EC was established.

- 1.1. Visitors** – The attendees on the phone and visitors were identified as noted above.
- 1.2. Requests for Additional Agenda Items** – There were no requests for additional agenda items.
- 1.3. Request for Executive Session Agenda Items** -. There were no requests for an executive session.
- 1.4. Declarations of Potential “Conflict of Interest”** – There were no declarations of potential conflicts from the Independent Executive Committee members.

## **2. Meeting Minutes/Action Items List**

- 2.1. Approval of Minutes for Meeting No. 232 (August 10, 2018)** – H. Schrayshuen introduced the revised draft minutes of the August 10, 2018 EC Meeting (Attachment #2.1) which included all comments received prior to the due date for comments. R. Clayton noted one correction which was read aloud to the EC members. G. Smith made a motion to approve the minutes of Meeting #232. The motion was seconded by M. Domino and unanimously approved by the EC members in attendance (13 - 0). The EC Secretary will arrange to have the final minutes for EC Meeting #232 posted on the NYSRC website.
- 2.2. Review of Outstanding Action Items List** – H. Schrayshuen presented the Action Item List – Attachment #2.2 noting that Action Item #231-4 – NYISO presentation on its ability to manage potential reliability impact of generators consuming back up oil for economic reasons will be rescheduled to the November 2018 meeting. He also noted that Action Item 232-6 was incorporated into Agenda item #12.2.

## **3. Organizational Issues**

### **3.1. Summary of Receipts & Disbursements**

**3.1.1. Statement of Cash Receipts and disbursements** – A. Adamson presented Attachment #3.1.1 - Statement of Cash Receipts and Disbursements for August 2018, noting the end of month balance of \$186,374.10. There was discussion regarding the budget underrun of \$100,000 year to date. It was noted that also in past years a large underrun has occurred at this same point in time. M. Sasson will schedule a call with A. Adamson and R. Clayton to discuss the budget underrun and steps to be taken to address it. **(AI 233-1)**. A. Adamson noted the need for a call for funds of \$25,000 due October 1, 2018.

### **3.2. Other Organization issues**

**3.2.1. Review and approval of 2019 EC and Subcommittee Meeting Schedule** – Attachment #3.2.1 A. Adamson presented Attachment #3.2.1 – He noted that all dates were approved by the subcommittees in their previous meetings. M. Sasson made a motion to approve the proposed meeting schedule. The motion was seconded by B. Ellsworth and unanimously approved by the EC members in attendance (13-0). This closed out action item #232-2.

**3.2.2. Report on hotels options for meetings in the Albany area** - H. Schrayshuen reported on AI #232-1. H Schrayshuen mentioned he reached out to the NYISO for a current list of hotels that with which it has a relationship. H. Schrayshuen pointed out that the hotels on that list are in the Rensselaer area. After some discussion, the group requested that hotels in the Wolf Road area be researched further. M. Mager offered the meeting facilities of Couch White as an alternative. AI #232-1 – is now revised to narrow the hotel search to the Wolf Road area. M. Sasson stated that he preferred meetings at the NYISO.

## **4. Installed Capacity Subcommittee (ICS) Status Report/Issues** – M. Wilczek, ICS Chair

**4.1. ICS Chair Report – Attachment #4.1 – M. Wilczek reviewed Attachment #4.1 – M. Wilczek updated the EC regarding the Parametric Study/Preliminary Base Case results. The result of the NYISO performing a Tan 45 and regression analysis has resulted in a Preliminary IRM of 16.9% with LCRs of 79.2% in NYC and 100.7% in Long Island. There was some discussion on updating the external control areas used in the model. The ICS will discuss this topic further in the October 3, 2018 ICS meeting and will provide an update to the EC.**

The ICS reviewed the Sensitivity Case List and raised the question of a potential overstatement of emergency assistance from HQ. After discussion, the ICS at its meeting decided to add a case removing emergency assistance from HQ to the model as a sensitivity model and make it a higher priority for a Tan 45 over the CPV Valley Energy Facility out of service. The current Tan 45 priority list is as follows, B-C Line out of service, HQ Wheel assistance unavailable, and CPV Valley Energy Facility out of service. ICS also agreed to remove Sensitivity #10 “Remove Line 33 due to PAR failure” due to the recently announced back in-service date of late 2021. This change will be incorporated into the final base case. It was noted that FERC wrote a decision on the B-C Line and deferred it to the courts. The likelihood that the B-C line would be back in service for the summer is currently determined unlikely. After discussion, the EC requested that the B-C line outage be placed in the Final Base Case for the IRM and that a sensitivity should be done with the B-C line coming back in service. The NYISO indicated that the process has progressed to far into the sensitivity analysis process to include this change in the base case used to model the sensitivity studies, but that the NYISO will remove it in the final base case. The original sensitivity will be performed with the B&C lines out of service.

NYISO presented an update to the SCR performance calculation. The NYISO recommended maintaining the current formula but using the calculated ACL and CBL translation factor instead of the fixed .09. The ICS agreed to this since it is a more accurate representation of the resource response across different zones.

The NYISO gave a presentation to ICS on the Alternative LCRs as calculated using the Tan 45 methodology from the preliminary base case with the economic optimization methodology. M. Sasson noted that the IRM result would be less than the Transmission Security Limit and stated that the Transmission Security Limits should be the limits used in the Tan 45. M. Wilczek stated that the ICS had a discussion on what would happen in case security limits were binding. The ICS decided that they would monitor the Transmission Security Limits this year and place the topic on the ICS Action Item List for 2019.

**4.2. Other ICS Issues – None to report**

## **5. Reliability Rules Subcommittee (RRS) Status Report/Issues –R. Clayton, RRS Chair**

**5.1. RRS Status Report & Discussion Issues – Attachment #5.1- R. Clayton reported on the status of the RRS activity and the status report. There is currently one PRR under development but on hold. PRR 128 is being held until the completion of the NPCC A10 Project. There are no PRRs open for comment or up for approval. One topic up for discussion was the availability of the Reliability rules and Compliance Manual. Because the Application List may contain CEII, it is now available to individuals with a myNYISO account, which is more secure. G. Smith asked Z. Smith to help with creating a secure location for CEII documents for the MDMS2 project. (AI 233-2). The discussion lead into further discussion resulting in the RRS working on developing text to include in the Introduction to the**

Reliability rules and Compliance Manual to address the handling of CEII and other Confidential Information.

- 5.2. List of Potential Reliability Rule Changes** – Attachment #5.2 – R. Clayton reported that there are no updates to the report. R. Clayton stated he made a request to the NY Transmission Owners to take the opportunity to make PRR applications or suggestions. He said that whether minor or major they would be considered.
  - 5.3 Other RRS Issues** – There was a long discussion about items discussed at the NPCC RSC Meeting: NPCC A-10, Strategic Review of NPCC Reliability Criteria, UFLA Study results, Guidelines for Incorporating DER into Planning Studies and Wind/Solar Peak Load Correlation Assessment.
- 6. Reliability Compliance Monitoring Subcommittee (RCMS) Status Report** –R. Clayton, RCMS Chair
- 6.1. 2018 Reliability Compliance Program** – Attachment #6.1 - R. Clayton reported that RCMS found the NYISO in full compliance for Real Time Operations of the NYS BPS (C8: R1) for July 2018. RCMS also found the NYISO in full compliance with the NYISO Requirements for Con Ed Operating Procedures (G.1:R1,2,4,5), The NYISO Requirements for Con Ed Operating Reserves (G.1:R3,6), and the Con Ed Operating Procedures and Reserves (G1: R7).
  - 6.2. RCMS Status Report** –Attachment #6.2 – Scorecard is up to date – no additional comments were made
  - 6.3. Other RCMS Issues** - R Clayton stated that RCMS as requested the NYISO provide Con Ed Operating Policies as referenced in NYISO Certification of Con Ed Operating Procedures and Reserves (G.1:R7) for RCMS review. RCMS has tabled discussion regarding its LCR economic optimization methodology (PRR 141) pending FERC’s tariff change determination.
- 7. Distributed Energy Resources (DER)** – R. Clayton
- 7.1. DER Workshop Plans** – Attachment #7.1 – R. Clayton discussed Attachment #7.1 the NYSRC DER Reliability Workshop Agenda. P Gioia suggested looking into a Trade Group to give a developer’s perspective for proposed agenda item 3.1. There was a recommendation for R. Clayton to prepare an announcement for the DER Workshop to be distributed in September 2018. **(AI – 233-3)**
  - 7.2. Other DER Issues** – Attachment #7.2 – G. Smith provided a presentation titled NY Renewable Resource Information. Presentation slides are posted on the NYSRC meeting material under Agenda Item #7.2.
- 8. Environmental Status Report/Issues** – Attachment #8.2 - C. Wentlent
- C. Wentlent reported attachment #8.2. On August 16, 2018 there was a conference call between the NYSRC and the NYS DEC. On Carbon Pricing the NYISO issued an analysis of the impact of carbon pricing in the market. These results will be discussed at the Integrated Public Policy Taskforce on Monday September 17, 2018. The DEC received 5600 comments on the Part 251 coal regulations. One of the units that could be affected, Cayuga Unit 2, was placed in an ICAP Ineligible Forced Outage by the NYISO.. The NYISO deactivation study did show the unit could shut down without any reliability issues. The DEC is working through comments on the peaking turbine air quality rule. The next meeting of the NYSRC with the DEC is October 18, 2018.
- 9. NERC/NPCC Standards Tracking** – A. Adamson - Attachment #9.1. A. Adamson reviewed Attachment #9.1. On TPL-001-5 the NYSRC voted yes for that ballot. M. Sasson made a suggestion that an email go out to the members of RRS, not just before the meetings, but as the ballots come up for voting, stating that the NYSRC vote is occurring on a certain date and all comments from members should be sent in by a designated time. R. Clayton suggested that the EC members should be included on the email. **(AI-233-5)**

## **10. Reliability Initiative – G. Smith, G. Loehr**

- 10.1. Review Minutes of MDMS2 Meeting of August 14, 2018** – Attachment #10.1 - G. Smith noted attachment #10.1 is a review of the August 14, 2018 MDMS2 meeting.
- 10.2. Report on highlights of September 13, 2018 MDMS2 face to face meeting** - There was an MDMS2 additional meeting on September 13, 2018. He noted the Base Case renewables has been setup, the values are very optimistic. Quanta successfully re-ran the cases received from EnerNex on their system. There was discussion on different mitigation measures and more discussions are needed. The next steps for the MDMS2 project are to review simulation results under contingencies. The MDMS2 team will also be looking at what the impact of loss of renewables would be on the results.
- 10.3. NERC Update on Findings Related to Performance of Inverter Based Resources** – Attachment #10.3 – G. Smith reviewed Attachment #10.3 – slides are posted on NYSRC website under Meeting Materials for the September 14, 2018 meeting. G. Smith focused on some of the key findings of the NERC update relating to the use of “momentary cessation” where inverters cease to generate real power during fault induced voltage dips that may fall within the “no trip zone”. In fact, many inverters may go into this mode for voltage dips that fall below 90%. In addition, the recovery time to return to full power varies from inverter to inverter and may require many minutes as opposed to a desired recovery time on the order of 1 second. Next steps include NERC developing a reliability guideline for inverter based resources in the near future.

## **11. State/NPCC/Federal Activities – P. Fedora**

- 11.1. NPCC Report** –The NPCC RCC met September 5, 2018. Highlights from the RCC meeting included: A round table discussion of summer operations noting it was a hot summer with several heat waves but the system held up very well. There were some forest fires in Quebec and Ontario which required communication between the RCs. There was discussion about preparations for the coming winter.

An update on the NPCC review of the A-10 Methodology was provided. P. Fedora reported that testing continues on the methodologies that were developed. Some of the results were shared with the RCC. A final report will be presented to the RCC in December. The RCC will use previously determined criteria developed in the June 2018 meeting to select a preferred methodology.

Regarding the strategic review of NPCC’s more stringent reliability criteria, there was a draft report given to the RCC and RSC for comments. Comments are due October 5. Comments will be considered for inclusion in a final report to be presented to the RCC in December 2018 and then to the NPCC board.

For the NPCC Under-frequency Load Shedding Assessment, the NPCC SS38 Working Group is continuing its work. Each of the NPCC areas has completed their assessments for a baseline case. There are complications with the software, which are currently being resolved. This project is scheduled to be completed by the end of 2018.

There was a follow-up on the NERC National Gas Distribution Study published in November 2017. The study indicated the sensitivity to disruptions of the Algonquin Pipeline. NPCC is performing a more detailed analysis.

NPCC is also working on a Wind and Behind the Meter Solar Peak Load Correlation Assessment. The final report is due at the end of 2018.

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**NPCC Board of Directors Report** – There was a NPCC BOD Strategy Meeting on September 6, 2018. Some topics included Bulk Power System Resilience, challenges of changing resource mix and the integration of inverter-based technology. There were a number of updates from different groups. NPCC Annual and General Meetings are in Toronto on December 5, 2018.

**11.2. NERC Report** – The NERC technical committee meetings occurred the week of September 9, 2018. There were a number of guidelines approved including: The Guidelines for Power Plant Modeling Verification for Inverter Based Resources, IROL Framework Assessment Report was approved including the methods for establishing for IROL. NERC has developed an action plan for addressing what came out of the July Gas Workshop that will be presented to the NERC Board of Trustees at their November Meeting. There is a call for new member for the System Planning Impacts from Distributed Energy Resources Working Group (SPIDERWG).

## **12. NYISO Status Reports/Issues**

### **12.1. NYISO Comprehensive System Planning Process** – Z. Smith - Attachment #12.1

Z. Smith reviewed the highlights of attachment #12.1. The RNA is in its final draft, which was approved by the Operating Committee and will be sent to the Management Committee for action at their Sept 26, 2018 meeting. Pending approval at the Management Committee meeting it will then go to NYISO Board consideration at for their meeting in October. As previously stated the Deactivation Assessment for the Pilgrim Facility, the analysis identified two reliability needs. The NYISO sent out a solicitation for solutions on July 9, 2018. The comment period ended and the NYISO is working through the solutions that were received. NextEra has filed their Article VII transmission siting application with the NYPSC on August 2018 for the Empire State Line transmission project. The NYISO initiated the 2018-2019 Public Policy Transmission Planning Process cycle by issuing a solicitation for proposed transmission needs driven by Public Policy Requirements. The period for comment will close on September 30, 2018.

### **12.2. NYISO Markets**– R. Mukerji - Attachment #12.2

R. Mukerji reviewed the highlights of attachment #12.2. R. Mukerji noted that the Market Report has been reworked based on of the suggestions at the last EC meeting. R. Mukerji noted that the public policy directive is 50% renewable generation by 2030 for New York. As this resource shift comes, the NYISO is looking at its regulation and reserve requirements. The NYISO is looking at allowing Solar to dispatch down in the future, which wind already is able to do.

On DER, NYISO is looking at how to incorporate DER into the market. The NYISO has asked GE to perform a study on the Load Carrying Capability on Contribution to Capacity of DER. The study will be presented to the ICS for the October or November meeting. The ICS will then report on the presentation to the EC.

P. Gioia restated his concern that the Market Report rework is not identifying any reliability risks or concerns to the EC with regard to DER being integrated into the system. After some discussion R. Mukerji suggested that he would remove the reference to enhancements and just point out the key reliability risk aspects for consideration by the NYSRC (**AI – 233-4**). Any additional reporting from the NYISO on this topic would be developed after the DER Workshop on November 7, 2018.

### **12.3. NYISO Monthly Operations Report** – E. Nelson – Attachment #12.3

E. Nelson gave an update to the Alternative LCR effort – The NYISO responded to a deficiency letter from FERC on its Alternative LCR calculation methodology, which response was filed on August 9, 2018. Other parties responded to NYISO’s letter and the NYISO plans to file another response on September 14, 2018. In the draft response, the NYISO acknowledges that the LCR process really occurs at the end of an extensive process conducted by the NYSRC to establish the IRM. NYISO is requesting a FERC decision date of October 9, 2018. R. Clayton stated that the NYSRC’s concern was with the NYISO’s initial response on August 8, 2018 which included comments indicating that the NYISO was critical of the Tan 45 process. After a phone call with the NYISO it was clarified by the NYISO that the comments in question were not made to undermine the Tan 45 methodology and the NYISO would support further discussion on application of the Alternative LCR methodology.

E. Nelson reviewed the highlights of attachment #12.3. E. Nelson stated that W. Yeomans plans on bringing a Summer Operations review to the October 2018 EC Meeting. For the month of August there was a Peak Load of 31,861 MW which occurred on August 29, 2018. On August 28 and 29 the NYISO activated EDRP/SCR for Zone J. That activation was done to support NYC transmission security. During the month of August there were 19.7 hours of thunderstorm alerts and there were no hours of NERC TLR level 3. E. Nelson also reviewed and explained the charts on wind curtailment.

**13. NAESB Status Report** – B. Ellsworth – B. Ellsworth reported on the NAESB Annual Meeting and Strategic Meeting was held on September 6, 2018. There was extensive discussion on Cyber Security. There has been a specific request to support the integration of block chain technology into energy transactions. The request was initiated from and for the gas industry and the electric industry. The NAESB Board approved an increase in the annual dues by \$500.00 to \$7500.00. R. Clayton asked B. Ellsworth to send the notice of the increase to A. Adamson. **(AI – 233-6)**

**14. Visitor Comments** – There were no visitor comments.

**15. Adjournment of the EC Open Meeting**

Executive Committee Meeting #233 was adjourned at 1:58 P.M.

**16. Future Meeting Schedule**

<b>Meeting</b>	<b>Date</b>	<b>Location</b>	<b>Time</b>
#234	October 12, 2018	Albany Country Club	9:30 AM