

Minutes
New York State Reliability Council, LLC (NYSRC)
Executive Committee (EC) Meeting No. 227
March 9, 2018
Albany Country Club
300 Wormer Road, Voorheesville, NY

Members and Alternates

In Attendance:

Roger Clayton, P.E.	Unaffiliated Member – EC Chair, RRS Chair, RCMS Chair
George Loehr	Unaffiliated Member-Phone
George Smith, P.E.	Unaffiliated Member
Bruce Ellsworth, P.E.	Unaffiliated Member
Mariann Wilczek.	PSEGLI – Proxy for Curt Dahl - Member
Rick Brophy	NYSEG and RG&E – Alternate Member
Mayer Sasson	Consolidated Edison Co. of NY, Inc. - Member
Mark Domino, P.E.	National Grid, USA-Alternate Member-Phone
Mike Mager	Large Consumer - Member
Matt Schwall	Wholesale Seller – Member
Chris Wentlent	Municipal & Electric Cooperative Sector – Proxy for M Cordeiro – Alternate Member

Other Attendees:

Paul Gioia, Esq.	Whiteman, Osterman & Hanna, LLP – Counsel
Al Adamson	NYSRC Treasurer and Consultant-Phone
Mariann Wilczek	PSEGLI – ICS Chair
Carl Patka, Esq.	New York Independent System Operator (NYISO)
Zach Smith	New York Independent System Operator (NYISO)
Emilie Nelson	New York Independent System Operator (NYISO)-Phone
Doug Chapman*	New York Independent System Operator (NYISO)
Wes Yeomans	New York Independent System Operator (NYISO)
Rana Mukerji	New York Independent System Operator (NYISO)
J. Boles	New York Independent System Operator (NYISO)-Phone
Phil Fedora	Northeast Power Coordinating Council, Inc.-Phone
Vijay Puran	NYS Department of Public Service
Henry Chau*	Quanta Technology, LLC
Richard Bolbrock P.E.*	
Herb Schrayshuen	NYSRC EC Secretary

“*” Denotes part-time participation in the meeting

1. **Introduction** – R. Clayton, EC Chair called the NYSRC Executive Committee Meeting No. 227 to order at 9:30 a.m. on March 9, 2018. A quorum of eleven Members and Alternate Members (including two proxies as noted above) of the NYSRC EC was established.
 - 1.1. **Visitors** – The attendees on the phone were identified.
 - 1.2. **Requests for Additional Agenda Items** – There were no additions to the Agenda

- 1.3. **Previous Executive Committee Meeting** – R. Clayton reported on the Executive Session of the EC meeting on February 9, 2018. He reported the announcement of the retirement of R. Bolbrock from the EC. Mr. Bolbrock was honored for his service to the NYSRC at a separate luncheon meeting and a plaque was presented.
 - 1.4. **Executive Session Topics** – No Executive Session topics were proposed.
 - 1.5. **Declarations of Potential “Conflict of Interest”** – There were no declarations of potential conflicts of interest reported by the unaffiliated EC members.
- 2. Meeting Minutes/Action Items List**
- 2.1. **Approval of Minutes for Meeting No. 226 (February 9, 2018)** – H. Schrayshuen introduced the revised draft minutes of the February 9, 2018 EC Meeting (Attachment #2.1) which included all comments received. The EC reviewed the proposed draft minutes on a page by page basis. Changes were proposed by M. Sasson in section 5.4.1 related to the use of the terms “exception” and “SPS”. Additional editorial changes in section 5.4.1 were offered by P. Gioia regarding consistency of the reported discussion with the lanugage in the motion. B. Ellsworth made a motion to approve the minutes of Meeting #226 as modified. The motion was seconded by G. Smith and unanimously approved by the EC members in attendance (11 - 0). The EC Secretary will arrange to have the final minutes for EC Meeting # 226 posted on the NYSRC website.
 - 2.2. **Review of Outstanding Action Items List** – H. Schrayshuen presented the Action Item List in Attachment #2.2 noting a number of items will be completed later in the current EC Meeting. P. Gioia reported that the Delaware Tax payment (AI 226-1) has been made and that the application for the D&O policy has been made (AI 226-2). He noted the policy renewal is expected to occur prior to the April 9, 2018 due date. R. Clayton reported (AI 226-6) regarding a letter to NPCC designating NYSRC representatives to various NPCC committees has been sent. R. Clayton also noted that a letter to the City of NY was sent declining the invitation to participate in wind generation related legislation hearings. (AI 226-9), completing that action item. P. Gioia noted that work on MDMS2 Intellectual Property (AI 225-2) remains underway and the due date was changed to the April 6, 2018 meeting.
- 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 February 2018 noting the end of month balance of \$198,576.
 - 3.1.2. **Second Quarter Call for Funds**- A. Adamson noted that there will be a \$25,000 call for funds for the second quarter 2018. P. Gioia noted that since the budget has been approved there is no need for specific approval for this call for funds. M. Sasson noted the possibility of expenses varying such that explicit approval of the call for funds is appropriate. M. Younger offered the idea that the budget approval process should make reference to and pre-approve the call for funds process. A motion to approve A. Adamson’s proposed call for funds was made by M. Mager. The motion was seconded by G. Smith and the motion was approved (11-0) with no abstentions.
 - 3.1.3. **2017 Audit Report** - A. Adamson led the group through a discussion of the 2017 Audit Report noting each portion including the auditor’s opinion. He offered the opportunity to send him any questions on the report. R. Clayton asked whether the audit report is referred to in the NYSRC tax return. A. Adamson indicated that it is not used for tax return purposes. P. Gioia noted the report is used in the insurance process. A hard copy was provided to all EC members and alternates in attendance. A. Adamson directed H. Schrayshuen to mail hard copies to all EC members not physically attending the EC meeting.
 - 3.1.4. **Tax Return – IRS Form 990** – A. Adamson reported on the completion and filing of the IRS Form 990 tax return. R. Clayton inquired as to whom besides the treasurer reviews the return and

was informed that only the treasurer and accounting firm see the return. After discussion R. Clayton requested that the Form 990 tax return be shared with the EC Members (AI 227-1).

3.2. Other Organization issues

3.2.1. Delaware Tax Payment – P. Gioia reported that the payment was made fulfilling AI 226-1.

3.2.2. Report from IRM Voting Options Working Group Attachment #3.2.5 (AI 224-1) – P. Gioia reported that a new set of options have been prepared as shown in Attachment #3.2.5. He also reported that the NYISO confirmed in a meeting that IRM results reported to the precision of hundredths (second decimal place) can be accommodated by the MARS software and NYISO markets. M. Sasson reviewed the six options in the attachment for the meeting participants. The EC members and meeting participants engaged in a thorough round table discussion of the pros and cons of the six options. M Mager made a motion to accept Option 5, which starts with consideration of the base case IRM value and voting in increments of two-tenths of one percent (0.2) up and/or down from the base case value. The motion was seconded by G. Smith and unanimously approved by the EC members in attendance (11-0). A draft revision to Policy 5 will be developed for consideration by the EC at a meeting in the near future. A. Adamson emphasized that there are a number of additional Policy 5 changes emanating from the ICS which should be simultaneously incorporated to accommodate the 2018 IRM process. It was noted that the (AI 224-1) due date is the June 8, 2018 EC meeting; P Gioia will lead the effort to draft a revision of Policy 5.

4. Installed Capacity Subcommittee (ICS) Status Report/Issues – M. Wilczek, ICS Chair – Attachment #4.1

4.1. ICS Chair Report - M. Wilczek addressed the ICS report details as shown in Attachment #4.1. She outlined the various discussions with the ICS related to integration of DER into the NYISO markets for potential implementation within markets in 2019. R. Mukerji clarified the DER participation model activity in the NYISO. A study with GE is underway with results expected in 3-4 months. Additionally a pilot project for integrating actual DER resources into the NYISO markets is underway. Selection of 3-5 projects is expected to be identified by mid-2018. This topic will be included in the market NYISO markets report in future meetings.

M. Wilczek continued her report highlighting the load shape selection discussions with the NYISO identifying options for selecting load shapes. This is a project expected for future years, not for completion in 2018. She reported the ICS recommends that the ICS study guide be placed on hold. A section of the ICS website will be used to retain the institutional knowledge, such as posting of whitepapers.

The ICS discussed AI 226-7 regarding forecasting the Indian Point Deactivation impact on resource adequacy using the RNA database. The ICS concluded the effort is outside of the ICS activities scope. The subject will be taken back to the NYISO for additional discussion. M. Sasson withdrew his request for the study. AI-226-7 will be shown as completed.

R. Clayton noted the NY DPS process for developing environmental impact statements to accomplish its orders. P. Gioia noted that the NY PSC has determined that an environmental impact study is not needed for IRM approval.

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 identifying that there are two PRRs ready for posting. PRR 128 continues to be tabled at NPCC pending outcomes in the NPCC A-10 criteria review. R. Clayton noted there is ongoing discussion regarding the definition of “local area”. The project is still on track for 2019 delivery. PRR 140 (NYCA IRM) and PRR 141 (LSE ICAP Requirements) clarifications are now ready for posting.
- 5.2. New/Revised Reliability Rules Outstanding – Attachment #5.2**
R. Clayton provided an over view of the Proposed Reliability Rules in Attachment #5.2.
- 5.3. PRRs for approval**
- 5.3.1. PRR 140- A.1 (R1) Establishing NYCA IRM Requirements - Attachment #5.3.1 - R.**
Clayton provided an overview of PRR 140. He noted that the modification of the A1 rule is needed to clarify the requirements to be consistent with NPCC Directory #1 and the NYSRC Agreement. EC member discussion further noted that the clarification of the term “average” is intended to mean the average in a single year interval. M. Sasson made a motion to approve the posting of the proposed rule. B. Ellsworth seconded the motion, which was approved (11-0).
- 5.3.2. PRR 141 – A.2 (R1, R2) Establishing LSE ICAP Requirements – Attachment #5.3.2 – R.**
Clayton provided an overview of PRR 141. R. Clayton noted the purpose is to clarify the LCR requirements and move some of the material in the current rule to Policy 5. P. Gioia questioned the identification of the source of the data for the determination of the LCR. A. Adamson explained that Policy 5 specifies the data used by the MARS model and allows it to be updated by the NYISO in the course of the LCR determination. G. Smith made a motion to approve the Rule. M. Sasson seconded the motion which was approved (11-0).
- 5.4. RRS 2017 Highlights Report – Attachment #5.4 – R.** Clayton provided an overview of the contents of the report. For the EC’s information he reviewed the content and performance statistics offered by the report. He noted the new and revised rules in 2017. He further noted that the annual number PRR adoptions since 2005 are 6.5. Cumulatively since 2005 there have been over 80 corrections, revisions, additions and retirements of the rules. He noted the NYISO provided valuable assistance in 2017.
- 5.5. DER Workshop**
- 5.5.1. Draft Agenda – Attachment #5.5.1.** R. Clayton called the meeting participants attention to the current list of topics for the proposed DER workshop is shown in the attachment. There will be a new standing agenda item for the DER topic on future EC meetings. He solicited comments on the agenda topics. A meeting with NYISO experts is planned to take place in the near future. Z. Smith outlined a number of the issues related to DER technical issues and related reliability issues. G Smith and C Wentlent volunteered to assist with the Workshop effort.
- 5.5.2. Notice of FERC Technical Conference – Attachment #5.5.2 – R.** Clayton called the meeting participants’ attention to the upcoming April 10-11, 2018 FERC Technical Conference on DER matters, which will be open by WebEx. The outcomes of this event will be reported at the next EC meeting.
- 5.5.3. ISO-NE Implementation of Revised IEEE Standard 1547- Attachment #5.5.3 - R.** Clayton called the EC Member’s attention to the presentation on IEEE1547 by ISO-NE. He called the meeting participants attention to page 10, where ISO-NE forecasts of Solar PV growth is 5,000 MW by 2026. He noted that the amount of PV installed is much larger than past predictions. M. Sasson noted that in the recent month, more renewables were placed into service than non-renewables. C. Wentlent noted that there are a number proceedings sponsored by the NY PSC in an

effort to quantify the various attributes of DER. R. Mukerji noted the challenges of retail DER policy signals and impacts on the wholesale market signals.

5.6. Other RRS Issues

R. Clayton reported on the NPCC Goal to address risks to the Bulk Electric System from DER. He further noted a new proceeding from the NY PSC regarding advancing the Electric Vehicle Market in New York.

R. Clayton requested that the meeting participants offer their respective opinions regarding how to record the three Indian Point retirement-related exceptions in the NYSRC Reliability Rules Manual Exception list. His proposal is to show the entire motion in the Exception list for each of the three Indian Point-related exceptions. M. Sasson offered an alternative suggestion to place the Indian Point retirement related exceptions follow up activity into on the EC Action Item list. After discussion of the pros and cons of the options it was decided by consensus that the motion would be shown in both the Action Item List and the Exceptions List. **(AI 227-2)**

6. Reliability Compliance Monitoring Subcommittee (RCMS) Status Report –R. Clayton, RCMS Chair

6.1. 2017 Reliability Compliance Program – Attachment #6.1

6.1.1. R. Clayton reviewed the report of RCMS meeting #216. He noted that RCMS found the NYISO in full compliance with Real Time Operations of the NYS BPS (C8:R1) for January 2018. The RCMS found the NYSRC ICS in full compliance for 2018 (A1 R1 & R2).

6.2. RCMS Status Report –Attachment #6.2

6.2.1. R. Clayton called the meeting participants attention to the full report.

6.3. RCMS 2017 Highlights Report – A. Adamson provided an overview of the contents of the report. He noted the table summarizing the 33 assessments related to 56 requirements. All assessments found full compliance. Each assessment was on time and complete.

6.4. Other RCMS Issues – None

7. Environmental Report – R. Clayton noted that there was a meeting on February 22 but the notes have not been received. They will be distributed later when received. C. Wentlent noted that the RGGI model rule is moving ahead and that Virginia and New Jersey may join RGGI. C. Wentlent reported that generating units of 25 MW and lower in capacity may be included in the RGGI program. The lower size limit is yet to be identified. The NYSDEC is pursuing rules to reduce carbon intensity by 2020. The next NYSDEC conference call is April 19, 2018.

8. NERC/NPCC Standards Tracking – No report.

9. Reliability Initiative – G. Smith, G. Loehr

9.1. MDMS Phase 2 Project Status -Intellectual Property issues – Topic to be more fully reported at the next EC meeting. G. Smith noted that there is a low probability of new technology classified as intellectual property emanating from the project. He further noted that NYSERDA has not expressed any interest in retaining intellectual property rights.

9.2. MDMS Phase 2 Project Status – Project Status - G. Smith noted that Quanta has completed task #2.1 related to document review. He noted that the NDA process is resolved. P. Gioia has issued a draft NDA which is expected to be acceptable. **AI 226-10** is expected to be resolved in the course of the NDA development. The assumptions for the study related to contingencies, renewables penetration and other matters are being developed. The system protection and DER forecast data are expected to be

collected from the Transmission Owners. H. Chau reported that the data that is lacking is the MMS1 simulation case data from the prior contractor.

10. State/NPCC/Federal Activities

10.1. NPCC Report– P. Fedora reported that the NPCC RCC met on February 28 and approved the action plan related to the Phase 2 review of the three proposed A-10 methodologies. Completion of the selection process is expected by the end of 2018 with open process comments and NPCC formal approval in 2019. Discussion of an A-10 selection criteria occurred at the RCC. The NPCC TFCP will be making a recommendation on the selection criteria. He noted that NPCC Areas provided an overview of their performance during the Cold Snap. He reported that preliminary results for the NPCC 2018 Summer Reliability Assessment will be released publicly on May 15. He reported on the March 2018 NERC Technical Committee meetings and noted that the NERC PC approved several ERS technical briefs including items on the topics of Frequency Response and Ramping. A 2017-2018 winter round table discussion for all NERC areas took place during the Technical Conferences. The importance of communications during an emergency was noted along with recognizing the environmental constraints associated with certain fuels during the discussion. He reported on an emerging technology round table addressing gas delivery system reliability and resilience. There was a general discussion about the next NERC special assessment regarding the acceleration of generation retirements (coal and nuclear) in the 2020-2021 time frame.

G. Loehr noted that NERC has initiated an effort to develop a history record of reliability related activities. EC members are encouraged to offer any guidance and resources for that effort via G. Loehr. (AI 227-3)

11. NYISO Status Reports/Issues

11.1. NYISO System and Resource Planning Status Report, November, 2017- Z. Smith – Attachment #11.1

Z. Smith reviewed the status of the selected planning activities as presented in the attachment. He noted the start of the RNA process and lock down of assumptions in April. One scenario will look at oil generation which may be impacted by new NYS DEC regulations. The CARIS project is progressing through the working groups and is moving to the Business Issues Committee. Scenarios will be used to examine the Clean Energy Standard, for example. The Public Policy project is underway with draft results at the end of March and moving toward fewer stakeholder meetings and more efficient meetings with developers (all at once) in April. Expect NYISO committee review in June and NYISO Board action in July. M. Sasson reported on the fact that the NYISO and ConEd filed answers to the NJ BPU complaint filed with FERC regarding emergency assistance.

11.2. NYISO Markets (items relevant to reliability) –R Mukerji - Attachment #11.2

R. Mukerji's reported on the Capacity Export from Localities release project and schedule (AI 226-11), which calls for release after April 2018. Regarding the Pseudo Ties case FERC does permit the region where an external resource is located to have a veto over the export if there is an identified reliability issue. A protocol is being developed with PJM. This discussion fulfills (AI 226-12). R. Mukerji reviewed the remainder of his written report. He noted that pricing operating reserves is being examined, external participation rules and tailored availability penalties. He expects the market program projects will extend over three years. A master plan by the middle of 2018 will set a schedule

for deliverables. He noted that on February 15 FERC issued a storage order for implementation by the end of 2019.

11.3. NYISO Monthly Operations Report – W. Yeomans – Attachment #11.3 W. Yeomans reviewed the operating results for February 2018 as outlined in Attachment #11.3. He noted generally mild weather in February. There were no TLRs declarations and gas prices were low. He reported on the March 8, 2018 major emergency on the Central East limit as a result of a contingency in ISO-NE involving an ISO-NE Phase II outage, 200 MW simultaneous generation loss, and five AC transmission lines out of service due to a protection system failure. A disturbance analysis report is expected to be prepared by NPCC. The flows in New York were brought within limits within eight minutes. R Clayton noted another similar major emergency occurred in October 2017. W. Yeomans explained in detail how the contingency limits are prepared by looking at the most conservative Central East limit, which is stability based. On behalf of the MDMS2 project, G. Loehr expressed an interest in obtaining a report on the frequency deviation as a function of time that resulted from the event (AI 227-4). R. Clayton inquired regarding the handling of an STE violation and Emergency Transfer Criteria (ETC) alert on March 5, 2018. Later in the same day the NYISO issued for low system frequency (18:42-18:48). The NYISO will provide a report on the March 5 alerts at the April 9, 2018 EC meeting (AI 227-5).

11.4. NYISO Cold Snap Report – Attachment #11.4 – W. Yeomans provided an overview of the December-2017- January 2018 Cold Snap. He noted that it was an unusually cold period without a break for 13 consecutive days. Prior cold weather events had intervening warm periods. The presentation materials were reviewed in detail. He contrasted the relative prices between gas and oil with oil was less expensive than oil in certain areas of the eastern portion of the system. There were no major forced outages over the peak hours. There were few impacts of the cold weather on the outage performance of the system. The outages projected using 60 months of history showed no major difference from the actual performance. Several NERC TLR 3 alerts were issued during the event. No emergency procedures (e.g. customer appeals, voltage reductions) were implemented. Renewable generation performance was generally good in the period.

11.5. NYISO Security Report – Attachment #11.5 - D. Chapman provided an overview of NYISO security issues. He explained the various types of security breaches and offered explanations of how the NYISO trains its employees and defends itself from various cyber-attacks. His comments extended to the proposed NERC supply chain standard and collaboration with NERC.

12. NAESB Report – B. Ellsworth reported that NAESB is taking an interest in business practices for distributed energy within in its Retail Energy Quadrant.

13. Visitor Comments & Offer of thanks

There were no visitor comments.

14. Adjournment of the EC Open Meeting

Executive Committee Meeting #227 was adjourned at 2:38 P.M.

15. Future Meeting Schedule

Meeting No.	Date	Location	Time
#228	April 13, 2018	Albany Country Club	9:30 AM