

Minutes
New York State Reliability Council, LLC (NYSRC)
Executive Committee (EC)
Meeting No. 271
November 10, 2021
In-Person and Conference Call

Members and Alternates in Attendance:

Mayer Sasson	Consolidated Edison Co. of NY, Inc – EC Chair
Chris Wentlent	Municipal & Electric Cooperative Sector – Member – EC Vice Chair
Rich Bolbrock, P.E.	Unaffiliated Member
Roger Clayton, P.E.	Unaffiliated Member – RRS Chair, RCMS Chair
Bruce Ellsworth, P.E.	Unaffiliated Member
Steve Whitley	Unaffiliated Member
Frank Pace	Central Hudson Gas & Electric – Member
Mark Domino, P.E.	National Grid, USA – Member
Bruce Fardanesh	NYP&A – Member
Tim Lynch	NYSEG and RG&E – Member
Patti Caletka	NYSEG and RG&E – Alternate Member*
Curt Dahl	PSE&G-Member
Mike Mager	Couch White-Large Customer Sector – Member
Leonard Ashley	Independent Power Producers of NY (Wholesale Sellers Sector) – Member
Mark Younger	Hudson Energy Economics (Wholesale Sellers Sector) - Alternate Member

Other Attendees:

Paul Gioia Esq.	Whiteman, Osterman & Hanna, LLP – NYSRC Counsel
Al Adamson	NYSRC Treasurer and Consultant
Brian Shanahan	National Grid, USA – ICS Chair
Phil Fedora	Northeast Power Coordinating Council, Inc.
Matt Koenig	Consolidated Edison
Diane Burman	NYS Department of Public Service
Vijay Puran	NYS Department of Public Service
Josh Boles	New York Independent System Operator*
Kevin DePugh	New York Independent System Operator*
Mike DeSocio	New York Independent System Operator*
Nate Gilbraith	New York Independent System Operator*
Rick Gonzales	New York Independent System Operator
Carl Patka	New York Independent System Operator
Robb Pike	New York Independent System Operator*
Zach Smith	New York Independent System Operator
Wes Yeomans	New York Independent System Operator*
Herb Schrayshuen	Power Advisors, LLC – EC Secretary
Andrea Calo	Customized Energy Solutions
Matt Cinadr	E Cubed LLC*
Joseph Coscia	Potomac Economics
Keith Galarneau	Ravenswood Generating
Kevin Lang	Couch White, LLC
Scott Leuthauser	Hydro Quebec
Tim Lunden	LS Power

Ed Schrom Consultant
Julie Yedowitz Couch white, LLP *
Cori Tackman Power Advisors, LLC
“*” Denotes part-time participation in the meeting

1. Introduction – M. Sasson, EC Chair, called the NYSRC Executive Committee Meeting No. 271 to order at 9:38 a.m. on November 10, 2021. The meeting was held in person at Wolferts Roost with participation also provided by conference call. An initial quorum of 13 Members and Alternate Members of the NYSRC EC was established.

11. Identification of Visitors – Visitors in attendance were identified via the participant list.

12. Requests for Additional Open Session Agenda Items – None requested.

13. Requests for Executive Session Agenda Items – None requested.

14. Declarations of Potential “Conflicts of Interest” – R. Clayton stated that he was invited to speak at an event with Plug Power to discuss reliability in New York State. It was determined this engagement was not a conflict of interest.

2. Meeting Minutes/Action Items List – H. Schrayshuen

21. Approval of Minutes for Meeting #270 (October 2021) – Attachment #2.1 – H. Schrayshuen introduced the revised draft minutes of the October 15, 2021, meeting which included all comments received as of November 5, 2021. H. Schrayshuen stated that there were two changes submitted prior to the meeting. The changes were reviewed. R. Clayton made a motion to approve the minutes of Meeting #270 with the proposed changes. 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 #270 posted on the NYSRC website.

22. Review of Outstanding Action Items List – Attachment #2.2 – H. Schrayshuen reviewed and updated the action item list with the meeting attendees’ input.

23. Review of draft of long-term standing milestone status report – H. Schrayshuen – Attachment #2.3 – H. Schrayshuen presented attachment #2.3. H. Schrayshuen asked the EC to review the document and submit any comments back to him for the December meeting. (AI-271-1) R. Clayton suggested to add subcommittee Chairs to the list of responsible individuals for item S2, Code of Conduct.

3. Organizational Issues

31. Treasurer’s Report - A. Adamson

3.1.1. Summary of Receipts & Disbursements - Cash Receipts and Disbursements – A. Adamson - Attachment #3.1.1 – A. Adamson presented Attachment #3.1.1 – Statement of Cash Receipts and Disbursements for October 2021, noting the end of month balance of \$206,655.46 which includes a \$30,000.00 call-for-funds prepayment. A. Adamson stated the end of year expenses are expected to be around \$7000 below budget. A. Adamson also stated that the 4th quarter call for funds has been completed.

3.1.2. Proposal for Conducting 2021 Financial Audit - EC Approval Item – A. Adamson recommended that the EC approve a proposal sent by Slocum DeAngelus & Associates, PC to perform the NYSRC 2021 Financial Audit which includes completion of the annual IRS Form 990. The cost for the audit is \$4,000.00 which is

an increase of \$100.00 over the prior year. S. Whitley made a motion to approve the proposal and hire Slocum DeAngelus & Associated, PC to perform the 2021 Financial Audit. The motion was seconded by M. Domino and unanimously approved by the EC members in attendance. (13-0)

32. Other Organizational Issues

3.2.1. 2022 NYSRC Goal Status Report – R Clayton – Attachment #3.2.1 – EC

Approval Item – R. Clayton presented attachment #3.2.1. R. Pike stated that the NYISO appreciated the opportunity to review and comment on the 2022 NYSRC Goals. R. Pike stated that the NYISO proposes a change to goal B.2 to capture that the focus is on transmission planning and resource adequacy design. R. Clayton stated that the additional wording to the goal is too restrictive and limits more aspects than were proposed to be potentially evaluated for example operating rules, etc. C. Patka suggested adding the word “including”, to keep transmission planning and resource adequacy design in the wording of the goal due to their importance and thereby the limitation would be removed. That suggestion was accepted. R. Bolbrock suggested to remove the word “corporate” from the document title. The proposed timelines were reviewed and adjusted. R. Gonzales stated that the NYISO appreciated the ability to comment and believed the proposed goals incorporate the NYISO’s comments. He stated that the NYISO supports these goals, and the actions outlined in the goals. R. Gonzales also stated that at the highest level, the NYISO supports the orderly and responsible transition of the generation fleet while preserving reliability. R. Gonzales commented that these goals should help with that transition. M. Sasson stated that he is pleased with how the idea of developing a goals document has developed and agrees this approach will help keep the focus as the generation fleet transitions. M. Sasson stressed the importance of the partnership between the NYSRC and the NYISO especially during this transition. M. Mager made a motion to approve the proposed NYSRC 2022 Goals as modified. The motion was seconded by C. Wentlent and was unanimously approved by the EC members in attendance. (13-0). The EC Secretary will have the NYSRC 2022 Goals posted prominently to the website.

4. Installed Capacity Subcommittee (ICS) Status Report/Issues – B. Shanahan, ICS Chair

4.1. ICS Chair Report – B. Shanahan - Attachment #4.1 – B. Shanahan reviewed attachment #4.1 – Summary of ICS meeting #253 on November 3, 2021. B. Shanahan and C. Dahl discussed the Y49/Y50 sensitivity proposed for the Final IRM Report. It was confirmed with the NYISO that the Y49/Y50 sensitivity will be completed for the November 29, 2021, ICS meeting. B. Shanahan stated that the NYISO will be presenting at the November 17th ICS meeting the Final Base Case ELR Sensitivity using GE MARS. It was suggested to the EC Members that they sit in on the November 17 and November 29 ICS meetings.

4.1.1. Parametric Results - Attachment #4.1.1 – EC Approval Item - B. Shanahan presented attachment #4.1.1 presenting the 2022 IRM Parametric Results. C. Dahl made a motion to approve the IRM Parametric Results with the condition that a thorough explanation of the EOP calls outcomes be included in the Study Report. The motion was seconded by R. Bolbrock and unanimously approved by the EC members in attendance. (13-0)

4.1.2. Tan 45 Results - Attachment #4.1.2 - B. Shanahan presented attachment #4.1.2 which shows the Tan 45 Results. B. Shanahan stated that the result of the Tan 45 is an IRM of 19.1% which is a reduction from the 2021 Tan 45 result of 20.7 %. J.

Boles confirmed that the Tan 45 results of 19.1% has been validated by both GE QA/QC review as well as PSEG-LI and Consolidated Edison QA/QC reviews. J. Boles stated that the difference from the preliminary 18.6% value to the final 19.1% value presented was driven by the addition of 180MW of solar resources and the load forecast update. C. Wentlent made a motion to approve the Tan 45 Results. The motion was seconded by M. Domino and unanimously approved by the EC members in attendance. (13-0)

4.1.3. Request for EC member comments pm the Draft Technical Study Report – NYCA Installed Capacity Requirement – May 2022 to April 2023 – Attachment #4.1.3 – EC Comments Requested – B. Shanahan presented attachment #4.1.4. A. Adamson made a comment to remove the comment on the NYISO LCR process on page 9. B. Shanahan made a request to have any comments to be sent B. Shanahan by 11/17/2021. (AI-271-2).

4.1.4. Request for EC Member Comments on the Draft Appendices to the Technical Study Report – Attachment #4.1.4 – EC Comments Requested – B. Shanahan made a request to have any comments to be sent B. Shanahan by 11/17/2021. (AI-271-3) There was further discussion on the EOP table in the appendices. J. Boles stated that EOP calls have been reduced to 45 calls and that by removing the shoulder month maintenance periods, the EOP calls were further reduced to 38. The NYISO is working on an analysis to be presented to ICS at the November 17 meeting that will provide more detail. It was stated that modeling the Emergency Purchases earlier in the process would be difficult due to time constraints. M. Younger stated that for decades the IRM model was run without recognizing the energy limited resources energy limitations. Since the model now includes energy limitations the number of EOP calls has increased. M. Younger suggested that if the EOP calls are not a realistic representation of what would be acceptable, then that is something to consider when the EC votes on the final IRM. S. Whitely asked to have the number of EOP calls that occurred on peak days vs. non-peak days identified. N. Gilbraith stated that out of the 38 calls, 28 of them were in the June-September time frame. N. Gilbraith stated that the hours in which the EOP calls occurred cannot be determined in a timely manner. The list of EOP calls will be updated in the next version of the study report.

42 Other ICS Issues – M. Sasson stated that Greg Drake has resigned as a consultant to the NYSRC. R. Clayton made a motion to send a letter of gratitude to Greg Drake. M. Sasson seconded the motion. It was also discussed to send him a plaque, which was readily agreed to. C. Dahl expressed his thanks to Greg Drake for years of service not only as an ICS Consultant but for the working closely with the ICS as a NYISO employee. (AI-271-4)

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

51. RRS Status Report – Attachment #5.1 - R. Clayton presented attachment #5.1 summarizing RRS meeting #261 held on November 4, 2021. R. Clayton stated that there are no PRRs in progress. The next RRS meeting is scheduled for November 30, 2021.

52 Other RRS Issues – R. Clayton stated that RRS reviewed and discussed the Future Changes in Transmission Planning Chart. R. Clayton stated that W. Yeomans of the NYISO gave a presentation on the NERC Alert on Extreme Cold

Weather Events. The RRS also discussed a potential new Glossary term for Emergency Transfer Limit. RRS was asked by the NYISO to provide it an opportunity to review the Glossary term. R. Clayton stated the RRS also discussed the 2022 NYSRC Goals and began to develop the scopes for the action items outlined in the 2022 NYSRC Goals. The RRS requested that the NYISO to present the NYISO's response to the NERC Odessa Disturbance Report in the December 2021 RRS meeting. The concern is with the fact that behind the meter inverter-based resources with legacy controls could trip inappropriately. The RRS asked the NYISO how Inverter Based Resources and DERs are modeled, where is the data coming from and what sort of studies are being planned for interconnecting solar and wind resources on the network. M. Sasson stated that NERC submitted comments to the FERC ANOPR regarding the same question on modeling inverter-based resources which are not currently part of a workflow that is applied for reliability studies. B. Fardanesh stated that NYPA, National Grid and Quanta are looking at the performance of protection schemes when there is a large penetration of inverter-based resources in service. B. Fardanesh stated that any developer needs to provide working models to the transmission owner for evaluation before they can connect to the system. Z. Smith stated that CRP is flagging several concerns regarding inverter-based resources. There was a brief discussion regarding tightening the interconnection rules and processes to account for the impacts of inverter-based resources.

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

61. RCMS Status Report – R. Clayton reported on attachment #6.1, a summary of the RCMS Meeting #259 held on November 4, 2021. He reported that the RCMS found the NYISO in full compliance for Real Time Operations of the NYS BPS for the months of September (C8:R1). RCMS also found the NYISO in full compliance for Loss of Gas Supply – NYC (Fuel swap test) [G.2:R.6], Generation Unit Availability & SCR Performance (Generation outage statistics report) [I2:R3], Generation Unit Availability & SCR Performance (SCR outage statistics report) [I.2:R4.4].

62. 2021 Reliability Compliance Program – Attachment #6.2 – Attached for informational purposes.

63. Other RCMS Issues – None to report.

7. NYISO Status Reports/Issues

7.1. NYISO Comprehensive System Planning Process – Z. Smith – Attachment #7.1 – Z. Smith stated that the NYISO is reviewing the Comprehensive Reliability Plan with stakeholders and working groups and will seek approval from the NYISO Operating and Management Committees in November before seeking approval from the NYISO Board of Directors in December. The 2021 Quarter 3 Short Term Assessment of Reliability was completed, and no bulk power system reliability needs were found. Z. Smith stated that the NYISO has begun work on the 2021-2040 System & Resource Outlook and is continuing working on assumptions. Z. Smith stated there was Interregional Planning Stakeholder Advisory Committee (IPSAC) meeting on October 29, 2021, to discuss a study of potential interregional transmission projects for the integration of offshore wind.

7.1.1. Presentation on the NYISO Comprehensive Reliability Plan (CRP) - Attachment

#7.1.1 – K. DePugh – Z. Smith prefaced the presentation stating that per the tariff and the NYSRC rules, the CRP does not find any reliability needs. Still, the data shows there are

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several areas that are identified as worrisome. Z. Smith highlighted some areas to look at, especially extreme weather events. Z Smith noted that the reliability rules are design criteria around electrical faults, and that the current NYSRC Reliability Rules are not designed with loss of wind or sun in mind, which could be considered as a loss of fuel. R. Clayton suggested a meeting to discuss this further, S. Whitley, C. Dahl, M. Sasson and R. Bolbrock requested to be part of the conversation. K. DePugh presented attachment #7.1.1 summarizing the findings of the CRP. M. Sasson thanked K. DePugh and Z. Smith for making this very informative presentation.

72. NYISO Markets Report – R. Mukerji – Attachment #7.2 – M. DeSocio reported on behalf of R. Mukerji. M. DeSocio presented attachment #7.2 stating that NYISO is continues to discuss its proposal for capacity accreditation and buyer-side mitigation measures. The proposals were approved by stakeholders and will be presented to the NYISO Business Issues and Management Committee in November. M. DeSocio stated that NYISO is still exploring a potential market enhancement to expand the provision of regulation service from generators by separating regulation “up” and “down” services. The implementation of the Hybrid Co-located market rules is planned for mid-December 2021. The NYISO has begun discussion with its stakeholders on the Hybrid Aggregation Model design which will continue into 2022.

73. NYISO Monthly Operations Report – W. Yeomans

7.3.1. NYISO Operations Report, October 2021 (short form) – Attachment #7.3.1 - For information purpose only.

7.3.2. NYISO Operations Report, October 2021 (long form) – Attachment #7.3.2 – W. Yeomans presented the highlights page of attachment #7.3.2. W. Yeomans stated that the October peak load of 19,594 MW occurred on October 15, 2021. There were 3 hours of thunderstorm alerts and 5 hours of NERC TLR level 3 curtailment in October.

8. Decarbonization & DER – M. Koenig

8.1. Decarbonization & DER Report – M. Koenig - Attachment #8.1 – M. Koenig reported on attachment #8.1 which includes links to the referenced documents. M. Koenig highlighted the NPCC DER Forum, November/December IEEE Power and Energy Magazine, NYISO Interconnection Queue: Storage / Solar / Wind / CSRs (Co-located Storage). M. Koenig stated that the NYISO has published new videos and podcasts on the NYISO website.

9. Environmental Status Report/Issues – C. Wentlent

9.1. Discussion – Danskammer and NRG Air Permit Decisions by the NYS DEC – Attachment #9.1.1 - C. Wentlent presented attachment #9.1.1. C. Wentlent stated that these are the first Title V Air permit decisions made after the Climate Act was implemented. Both permits were denied. C. Wentlent highlighted page 5 which states the NYS DEC is reviewing emissions not only at the emitting source but upstream from the emitting source. C. Wentlent also highlighted page 6 Requirements of Section 7(2) of the Climate Act, page 7 “Determination of Inconsistency”, and page 10 “Emissions Free by 2040”. It was noted that both permits involved renewing the emitting source. The DEC is reviewing a generator permit serving a bitcoin load. The next NYSDEC/NYSRC meeting will be held on November 18, 2021.

10. Resource Adequacy Working Group – C. Wentlent – C. Wentlent stated that there was a call with the NYISO on the metrics from the IRM. The next step is to develop a report to be presented at the

January meeting.

101. EPRI Project “Resource Adequacy in a Decarbonized Future” – R. Clayton stated there is a meeting scheduled quarter 1, 2022. EPRI has been working on metrics, criteria, and tool capabilities. R. Gonzales stated that ISO-NE is working with EPRI and will be using the project’s tool to conduct probabilistic energy studies on extreme weather events. P. Fedora stated that there is a project meeting scheduled for December.

11. NERC/NPCC Standards Tracking – A. Adamson – Attachment#11.1

111. NERC Standard Tracking – A. Adamson – Attachment #11.1 – A. Adamson reviewed attachment #11.1 stating that there has been no activity in the past month.

12. State/NPCC/Federal Activities – M. Sasson/P. Fedora

121. NPCC Report –P. Fedora – M. Sasson stated that the NPCC Board of Directors met on October 27, 2021, and the major focus was the draft NPCC 2022-2025 Strategic Plan. P. Fedora stated the agenda for the NPCC Annual Meeting is being developed. P. Fedora stated the NPCC Reliability Coordinating Committee (RCC) will meet on November 30, 2021. The RCC will consider approving the NPCC 2021-2022 Winter Reliability Assessment as well as the 2022-2023 NPCC Task Forces’ respective work plans, and the RCC work plan.

122. NPCC/NERC Report – P. Fedora - P. Fedora stated that the NERC Board of Trustees (BoT)/Member Representative Committee (MRC) meeting was held on November 4, 2021. The NERC BoT approved the 2022 ERO enterprise workplan priorities, and there was a presentation on NERCs 2021-2022 Winter Reliability Assessment, and on the NERC 2021 Long Term Reliability Assessment. It was announced that the next BoT/MRC meeting in February 2022 will be hybrid meeting. The NERC Reliability Security and Technical Committee’s (RSTC) Energy Reliability Assessment Task Force will meet November 30, 2021. On the agenda is the review of the technical document developed regarding energy assurance to be sent to the RSTC for discussion at its December meeting. The RSTC will also consider concerns raised by the NERC Real Time Operating Subcommittee is regarding lower-than-normal coal inventories and how this may pressure national natural gas inventories. The RSTC will also review the NERC 2021 Long-Term Reliability Assessment. P. Fedora also reported that the FERC ANOPR technical conference is scheduled for November 15, 2021.

12.2.1. NERC Energy Reliability Assessment Task Force (ERATF) – P. Fedora & W.

Yeomans – P. Fedora stated that the ERATF distributed an email outlining the analysis of their review of NERC standards and guidelines and that a technical document was being drafted to present at the NERC December RSTC Meeting. W. Yeomans added that it is expected that after the RSTC acceptance of the technical document, the NERC Standards Committee will start their standards development process.

123. Implementation of Presidential Order on Securing the US Bulk Power Systems – NYISO & TO input – Administration/DOE 100-Day Plan - C. Patka reported that the House Homeland Security Committee held a hearing and that FERC released its annual Cyber Security Report.

124. Federal Legislation – H. Schrayshuen and R. Clayton – Attachment #12.4 – H.

Schrayshuen stated that a summary of the legislation provided by the DOE will be distributed.

13. NAESB Activities – B. Ellsworth – No report.

14. Visitor Comments – There were no visitor comments.

15. Adjournment of the EC Open Meeting

The open Executive Committee Meeting #271 was adjourned at 2:25p.m.

16. Future Meeting Schedule

Meeting	Date	Location	Time
#272	December 3, 2021	WebEx	9:30 AM