

Minutes
New York State Reliability Council, LLC (NYSRC)
Executive Committee (EC) Meeting No. 241
May 10, 2019
Wolferts Roost Country Club
120 Van Rensselaer Blvd, Albany, NY 12204

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
Bruce Ellsworth, P.E.	Unaffiliated Member
George Smith, P.E.	Unaffiliated Member
Mike Ridolfino	Central Hudson Gas & Electric – Alternate Member
Mark Domino, P.E.	National Grid, USA – Alternate Member
Tim Lynch	NYSEG and RG&E - Member - Phone
Bruce Fardanesh	New York Power Authority- Member
Curt Dahl, P.E.	PSEG-LI– Member
Matt Schwall	Independent Power Producers of NY- Wholesale Sellers Sector– Member
Mike Mager	Couch White - Large Consumer Sector – 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
Howard Kosel	Consolidated Edison Co. of NY, Inc. – ICS Chair
Phil Fedora	Northeast Power Coordinating Council, Inc.
Commissioner Burman	NYS Public Service Commission
Leka Gjonaj	NYS Department of Public Service
Rob Fernandez	New York Independent System Operator (NYISO)
Rick Gonzales	New York Independent System Operator (NYISO)
Carl Patka	New York Independent System Operator (NYISO)
Emilie Nelson	New York Independent System Operator (NYISO)
Zack Smith	New York Independent System Operator (NYISO)
Wes Yeomans	New York Independent System Operator (NYISO)
Josh Boles	New York Independent System Operator (NYISO) - Phone
Yachi Lin	New York Independent System Operator (NYISO)
Kevin DePugh	New York Independent System Operator (NYISO)
Herb Schrayshuen	Power Advisors, LLC – EC Secretary
Cori Tackman	Power Advisors, LLC
Rich Bolbrock, P.E.	
Matt Cinadr	E Cubed – Phone*
Ruben Brown	Northeast Clean Heat and Power Initiative (NECHPI)-Phone*

NYSRC Exec. Comm. Meeting No. 241
Initial Draft: May 31, 2019
Revised: June 11, 2019
Final: July 8, 2019

*” Denotes part-time participation in the meeting

1. Introduction – R. Clayton, EC Chair called the NYSRC Executive Committee Meeting No. 241 to order at 9:30 a.m. on May 10, 2019. A quorum of 13 Members and Alternate Members of the NYSRC EC was established.

1.1. Identification of visitors – The attendees on the phone and visitors were identified.

1.2. Requests for Additional Open Session Agenda Items – None

1.3. Request for Executive Session Agenda Items – An executive session to elect the new unaffiliated EC Member and discuss further research projects was announced. No additional executive session items were requested.

1.4. Declarations of Potential “Conflict of Interest” – There were no declarations of new potential conflicts identified.

1.5. Notice of NYSRC’s 20th anniversary – R Clayton noted that today is the 20th Anniversary of the NYSRC.

2. Meeting Minutes/Action Items List – H Schrayshuen

2.1. Approval of Minutes for Meeting No. 240 (April 2019) – Attachment #2.1 H. Schrayshuen introduced the revised draft minutes of the April 11, 2019, meeting which included all comments received as of 5/3/2019. H. Schrayshuen noted that some editorial changes were submitted by M. Sasson prior to the EC meeting. R. Clayton noted additional editorial changes. M. Domino made a motion to approve the minutes of Meeting #240 including the suggested changes. The motion was seconded by G. Smith and unanimously approved by the EC members in attendance (13 - 0). The EC Secretary will arrange to have the final minutes for EC Meeting #240 posted on the NYSRC website.

2.2. Review of Outstanding Action Items List – Attachment #2.2 - H. Schrayshuen reviewed and updated Attachment #2.2 based on the EC member comments.

3. Organizational Issues

3.1. Summary of Receipts & Disbursements

3.1.1. Statement of Cash Receipts and Disbursements – A. Adamson -

Attachment #3.1.1 - A. Adamson presented Attachment #3.1.1 – Statement of Cash Receipts and Disbursements for April 2019, noting the end of month balance of \$146,299.51. The second quarter 2019 call for funds is complete.

3.1.2. Budget Process – A. Adamson noted that along with himself, R. Clayton and M. Sasson have been developing a conceptual budget for 2020. There has been an agreement to remove the contingency budget of \$50,000 because these funds have already been collected and have not been used and also to reduce the Legal budget line by \$30,000 for a total reduction of \$80,000. The 2020 budget is slated to be approved by the July 2019 meeting.

3.1.3. Other Organizational Issues – None

4. Installed Capacity Subcommittee (ICS) Status Report/Issues – H. Kosel, ICS Chair

4.1. ICS Chair Report – Attachment #4.1 – H. Kosel reviewed attachment #4.1 – Summary of ICS meeting #219 on May 10, 2019. There were two white papers

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presented. One on the External Area Review Method and another on Energy Storage Resource Modeling. In the future ICS will be reviewing a whitepaper on how to handle the HQ Wheel Modeling and Cedars update as well as any recommended Policy 5 changes that may be required.

4.1.1. External Area Review Method Whitepaper – Attachment #4.1.1 – EC Approval Item – H. Kosel reviewed the whitepaper with the EC. The recommendation of the whitepaper was to use scaling to adjust loads in external Areas proportional to excess capacity in the NYCA zones. The NYISO and the NYSRC consultant recommends that scaling loads in this manner be adopted for the 2020 IRM study. There was additional discussion as well as one editorial change which will be posted on the NYSRC website, **(AI-241-1)**. G. Loehr made a motion to approve the whitepaper with the editorial change. The motion was seconded by M. Sasson and unanimously approved by the EC members in attendance (13 - 0).

4.1.2. Energy Storage Resource Modeling – Attachment #4.1.2 – EC Approval Item – H. Kosel reviewed the whitepaper with the EC. The recommendation of the whitepaper is to model the two 5 MW duration-limited battery resources in the 2020 IRM using the peak shaving model. After discussion M. Domino made a motion to approve the whitepaper as drafted. The motion was seconded by B. Ellsworth and unanimously approved by the EC members in attendance (13 - 0).

4.2. Other ICS Issues – G. Loehr stated that New Mexico has signed a new bill that commits the state to be 100% renewable by 2045. After further research he discovered that one assumption in their resource modeling is that the reserve margin requirement is going to be inadequate. Using the utilities' published numbers and additional research, he has determined that under the new plan their LOLE will increase greatly. If anyone is interested in reading the whitepaper or the Op-Ed piece published in the Santa Fe newspaper, he will forward them. He will keep anyone up to date if they are interested.

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 attachment #5.1 providing a summary of the May 2, 2019 RSS meeting. There are currently 3 PRRs under development. PRR 128 is tabled pending the NPCC A-10 revision completion. PRR 142B is a revision to the prior PRR 142 is still in the early stages of development. Con Ed is the proposer of this rule. PRR 143 Loss of Gas Supply has been tabled until the NYISO finalizes the 2024 Fuel and Energy Security Study which may provide more information for development of the PRR. The study currently has a completion deadline of second quarter of 2019. There are no PRRs open for comment or final approval. There are currently two topics open for discussion. The first topic is that RRS will continue to monitor ICS activity concerning the impact of ELRs on NYCA reliability to determine if a rule is needed. The second topic concerns the TO Public Appeals estimates for the IRM calculation. R. Clayton reported that he did reach out to the TOs and none of the other TOs agreed to follow PSEG-LI approach, to develop a Public Appeals study to establish a company specific public appeals number for the IRM analysis. RRS has reviewed NYISO emergency operating rules and has no objection, from a

reliability standpoint, to continued use of PSEG/LI Public Appeal load reduction analysis data for use in the IRM study M. Sasson stated that the TOs do not have the data to substantiate another number and stated that they have a number of SCRs are already accounted for. M. Ridolfino agreed and stated that for planning purposes any number other than 0 without proper backup decreases reliability on the system. M. Mager noted his disappointment with RRS's decision arguing that consistency was needed. After further discussion R. Clayton asked that ICS keep this topic open as an action item.

5.2. List of Potential Reliability Rule Changes – Attachment #5.2 – R. Clayton stated that the table is up to date.

5.3. Other RRS Issues – R. Clayton noted that RRS is monitoring DER activity at NYISO/TO, NPCC and NERC.

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

6.1. RCMS Status Report – Attachment #6.1 - R. Clayton reported on attachment #6.1, a summary of the RCMS Meeting #231 on May 2, 2019. R. Clayton reported that RCMS found the NYISO in full compliance for Real Time Operations of the NYS BPS (C8: R1) for March 2019.

6.2. 2019 Reliability Compliance Program – Attachment #6.2 – R. Clayton stated that the scorecard is up to date.

6.3. Other RCMS Issues – None

7. NYISO Status Reports/Issues

7.1. NYISO Comprehensive System Planning Process – Z. Smith – Attachment #7.1 – Z. Smith reported on attachment #7.1. The Comprehensive Reliability Plan has been reviewed by the NYISO ESPWG. The NYISO targets the May Operating Committee and Management Committee meetings for obtaining their recommendation for Board of Directors approval. Z. Smith also noted that there is an Interregional Planning Committee (IPSAC) meeting on May 13, 2019 and that the Eastern Interconnection Planning Collaborative finalized the public version of the Frequency Response Analysis Report, which has been approved by the Technical Committee and Executive Committee. NYISO will present a summary of the report at a future EC meeting.

7.1.1. Potential Reliability Impact of the NYSDEC Peaker Rule – K. DePugh – Attachment #7.1.1 – K DePugh presented on a study NYISO performed in conjunction with Con Edison and PSEG-LI. K. DePugh noted that the Reliability Needs Assessment reported no Reliability Needs for the 2019-2028 study period, however due to a draft DEC NOx emission rule a scenario was performed to assess potential reliability impacts from the proposed rule. The purpose of the presentation is to give an update on the study, not to identify solutions. Under the proposed regulation 3,300 MW nameplate generation could be impacted. The study concluded that without replacement capacity both transmission security deficiencies and resource adequacy shortfalls would result on a NYCA-wide basis and in Zones J and K. It was noted that the DEC has worked closely with the NYISO in developing this rule. The NYISO stated that the DEC has placed language within the rule to extend a unit's deactivation date if a reliability need is identified. If the draft rule is finalized as proposed the generators would have to

first file compliance plans. The NYISO would use those compliance plans for establishing the base case for the 2020 Reliability Needs Assessment. If reliability needs are identified under the tariff the NYISO would have to find solutions to meet the reliability needs. Solutions could either be market based or developed through transmission owner regulated back stop solutions. The NYISO stated that they will be filing comments in support of the rule as drafted and, based on the compliance dates DEC has proposed, to finalize the rule as soon as possible. It was decided that the NYSRC will file comments in support of the NYISO position. (AI-241-2)

- 7.1.2. Modified AC Transmission Report approved by the NYISO Board of Directors – Y. Lin - Attachment #7.1.2** – Y. Lin delivered a presentation providing an overview of the AC Transmission Public Policy Transmission Projects. Y. Lin discussed the two selected projects selected by the NYISO Board of Trustees to address the Transmission Needs identified in 2015. When completed, Segment A will provide at least 350 MW of additional transfer capability and Segment B will provide at least 900 MW of additional transfer capability. The NYISO will perform more studies with Segment A and Segment B together as well as an examination of Subsynchronous Resonance and Transient Voltage Recovery issues. After the presentation there was discussion of whether the NYSRC needs to establish a rule mandating that Subsynchronous Resonance issues be studied for future projects as there are no current requirements or guidelines. R. Clayton stated that RRS will consider the matters and discuss if a rule is needed. He will also look to see what other entities use for guidelines; for example, ISO-NE and CAISO.
- 7.2. NYISO Markets Report – R. Mukerji - Attachment #7.2** – E. Nelson presented on behalf of R. Mukerji. E. Nelson reviewed attachment #7.2 stating that with the requirement to meet the goal of 50% renewable generation the NYISO is continuing to identify what is needed from a reliability perspective. E. Nelson said that the NYISO is working to make sure the markets are structured to meet the reliability needs as New York’s incentivized renewable energy generation goals are implemented and the new DER is coming onto the system. One market design change that has been approved is separating Zone J into its own capacity market zone at the stakeholder’s request. Pending FERC approval, the NYISO will secure 500 MW of 10-minute reserve and 1,000 MW of 30-minute reserve for Zone J. The NYISO is continuing to work on the previously mentioned whitepaper which is looking at comprehensive markets, reliability and planning reviews. It will focus on any gaps in reliability and what market changes might be needed to close those gaps. The NYISO will provide the EC an update on the paper when completed. The NYISO has been developing some comprehensive market rules governing inclusion of DER in the wholesale market. In April stakeholders approved a DER market design. The next steps include seeking NYISO Board approval and FERC approval. The projected implementation timeframe is 2021.
- 7.3. NYISO Monthly Operations Report – E. Nelson - Attachment #7.3** – E. Nelson presented Attachment #7.3. For the month of April there was a Peak Load of 18,777MW on April 1, 2019. There were 3.5 hours of Thunder Storm Alerts and 1 hour of NERC TLR level 3 curtailment. It was noted that NYISO achieved a wind

energy record of 1,615 MW, 10% of the state's electrical demand in that hour, on April 26, 2019 and on April 15, 2019 the series reactor on the Erie East-South Ripley 230kV (#69) line was placed in service.

- 8. Distributed Energy Resources (DER) – G. Smith** – G. Smith discussed attachment #8.1 - The NERC SPIDER WG met on April 10 – 11. The MOD-032-1 SAR was approved by the WG and will go to the NERC PC leadership for their consideration in June. The working group developed guidelines and updates to allow implementation of the DER_A Model. Those guidelines will go to the NERC PC to review for their next meeting. G. Smith mentioned that Interconnection Planning Working Group (IPWG) discussed a straw proposal to have projects of 5 MW or less go through the standard interconnection connection process of the DPS, while 5MW or more would go through the utility process. R. Clayton mentioned there is a Power Modeling Conference sponsored by NERC in June 2019. R. Clayton asked if anyone from the TOs were attending the event. H. Schrayshuen stated that he has asked the TOs if they had anyone participating in the conference and had no response. R. Clayton and G. Smith will work on getting the conference materials from any attendees. **(AI-241-3)**

8.1. Other DER Issues – None to report

- 9. Environmental Status Report/Issues – C. Wentlent** – C. Wentlent noted that on May 10, 2019 the DEC adopted the Part 251 new CO2 standards for existing plants. The compliance date is December 31, 2020. The emission rate is 1,800lbs of CO2 per MWh gross electric output. The rule would affect about 850 MW of generation by December 31, 2020. Public hearings for the Peaker Rule are continuing and comments are due May 20, 2019. Virginia's effort to join RGGI will be delayed due to some language placed in the Virginia budget. There was a DEC/NYSRC meeting on May 9 and notes will be distributed. **(AI-241-4)**

10. NERC/NPCC Standards Tracking – A. Adamson – Attachment #10.1

- 10.1. NERC Standard Tracking – A. Adamson – Attachment #10.1** – A Adamson reviewed the attachment. A. Adamson stated he did get some input from the TOs for a few of the votes but noted the input is limited and infrequent. H. Schrayshuen mentioned there is a webinar on the modifications to PRC-024-3 on the NERC website.

10.1.1. NYSRC NERC standards ballot process – R Clayton – Attachment #10.2 -

R. Clayton reviewed the changes made to the NYSRC Policy on NERC Standard Balloting. There was discussion on the changes to the balloting process. The words "as an exception" under 3.b were requested to be removed as well as adding the word "abstain" to 3.a. With those changes B. Ellsworth made a motion to accept the policy change. The motion was seconded by M. Domino and unanimously approved by the EC members in attendance (13 - 0). R. Clayton requested A. Adamson have the change posted on the NYSRC website. **(AI-241-5)** R. Clayton also noted that in the NERC Summer Assessment draft there is a footnote referencing the NYSRC and the IRM. P. Fedora noted comments on the Summer Assessment are due May 15, 2019 and the final assessment will be published May 30, 2019.

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

11.1. Report on the status of the MDMS2 Project - Attachment #11.1 – G. Smith reviewed attachment #11.1. G. Smith stated that tasks 3.1, Algorithm Development, and 3.2, Mitigation Measures, are completed. They are currently working on task 4, which is the testing. The goal is to wrap up work by the end of May or beginning of June. The final face-to-face meeting is proposed for the end of the May or beginning of June. R. Clayton requested a presentation on the project June/July timeframe. (AI-241-6)

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

12.1. NPCC Report – P Fedora stated that the NPCC Board of Directors met on May 1, 2019. They reviewed a draft of the NPCC 2020 Business Plan and Budget. The NPCC 2020 Business Plan and Budget was approved to be posted on the website and will be reviewed up until the NPCC Board of Directors meeting on June 26, 2019, where it is slated to be approved. The NPCC Board of Directors also reviewed policy input submitted to the NERC Board of Trustees in support of the NERC Supply Chain Management Report recommendations. There was a presentation on the NPCC 2019 Summer Reliability Assessment. A NPCC Distributed Energy Resources Forum is scheduled for May 16, 2019, following the NPCC Regional Standards Committee meeting.

12.2. NERC Report – P. Fedora stated that the NERC Board of Trustees and the Member Representatives Committee met on May 8 and May 9, 2019. The NERC Board of Trustees reviewed the stakeholder engagement process on how the NERC Committees will do business moving forward, there will be more discussion and a possible structural change announced near the end of the current year. A task force was formed to address system resilience to electromagnetic pulse events. The NERC Board of Trustees reviewed and approved the five-year ERO Assessment and the NERC Supply Chain Management report.

13. NAESB Activities – B. Ellsworth – B. Ellsworth – Nothing to report

14. Visitor Comments – None

15. Adjournment of the EC Open Meeting

The Executive Committee Meeting #241 was adjourned at 2:15 PM

16. Future Meeting Schedule

Meeting	Date	Location	Time
#242	June 14, 2019	Wolferts Roost Country Club 120 Van Rensselaer Blvd. Albany, NY 12204	9:30 AM