

**Minutes**  
**New York State Reliability Council, LLC (NYSRC)**  
**Executive Committee (EC) Meeting No. 249**  
**January 10, 2020**  
**Wolferts Roost Country Club 120 Van**  
**Rensselaer Boulevard, Albany 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 – EC Vice Chair
Rich Bolbrock, P.E.	Unaffiliated Member
Bruce Ellsworth, P.E.	Unaffiliated Member
George Smith, P.E.	Unaffiliated Member
Frank Pace	Central Hudson Gas & Electric – Member
Deidre Altobell	Consolidated Edison Co. of NY, Inc – Alternate Member
Mark Domino, P.E.	National Grid, USA – Member*
Bart Franey	National Grid, USA – Alternate Member*
Tim Lynch	NYSEG and RG&E – Member - Phone
Bruce Fardanesh	NYPA – Member
Curt Dahl, P.E.	PSEG-LI– Member - Phone
Mike Mager	Couch White-Large Customer Sector – Member
Matt Schwall	Independent Power Producers of NY - Wholesale Sellers 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 – Phone
Ruby Chan	Central Hudson Gas & Electric – ICS Chair
Greg Drake	NYRSC ICS Consultant
Phil Fedora	Northeast Power Coordinating Council, Inc.
Diane Burman	NY Public Service Commission
Vijay Puran	NYS Department of Public Service
Josh Boles	New York Independent System Operator
Rick Gonzales	New York Independent System Operator
Carl Patka	New York Independent System Operator
Robert Pike	New York Independent System Operator
Zach Smith	New York Independent System Operator
Wes Yeomans	New York Independent System Operator
Herbert Schrayshuen	Power Advisors, LLC – EC Secretary
Matt Picardi	Shell Energy
Scott Leuthauser	Hydro Quebec – Phone
Dan Pierpont	Competitive Power Ventures

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

1. **Introduction** – R. Clayton, EC Chair called the NYSRC Executive Committee Meeting No. 249 to order at 9:30 a.m. on January 10, 2020. A quorum of 13 Members and Alternate Members of the NYSRC EC was established.
  11. **Identification of Visitors** – Visitors in the room and on the phone were identified.
  12. **Requests for Additional Open Session Agenda Items** – R. Clayton stated there will be an item #1.6 for a Chairman’s Minute.
  13. **Request for Executive Session Agenda Items** – No additional agenda items were requested.
  14. **Report on Executive Committee meeting of December 6, 2019** – R. Clayton stated that in the previous EC Executive Session there was discussion on the ensuring materials are posting online in a timely manner. R. Clayton is currently working with A. Adamson on a solution and will report back when a decision it made. There was also discussion on establishing a Resource Adequacy WG to inform the EC regarding reliability criterion in various jurisdictions. This discussion is ongoing. R. Clayton announced that Greg Drake was hired as the ICS Consultant position, which was open due to A. Adamson’s retiring from ICS duties. The last item discussed was that R. Bolbrock was appointed at the Alternate Representative on the NPCC RCC for Sector 7. Currently R. Clayton is the Primary Representative.
  15. **Declarations of Potential “Conflict of Interest”** – There were no declarations of new potential conflicts of interest identified.
  16. **Chairman’s Minute** – R Clayton announced George Smith is retiring from the NYSRC EC as an Unaffiliated Member. George Smith stated that he has decided to retire from the EC. G. Smith praised the EC for their work and will miss working with the group. R. Clayton on behalf of the NYSRC thanked George for his outstanding efforts while serving on the NYSRC EC. G. Smith will continue to hold his unaffiliated seat on the EC until a replacement is found.

R. Clayton stated that there has been a request from Wolferts Roost to change the December 2020 EC meeting date. H. Schrayshuen will contact the NYISO, to have a backup location established if the need should arise. (AI-249-8) R. Clayton stated that he has signed the required NPCC Code of Conduct. R. Clayton brought to everyone’s attention to a paper on the NERC website edited by David Nevius on NERC History of the North American Electric Reliability Corporation.

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

21. **Approval of Minutes for Meeting No. 248 (December 2019) – Attachment #2.1** – H. Schrayshuen introduced the revised draft minutes of the December 6, 2019, which included all comments received as of January 3, 2020. R. Clayton stated that that in section #1.6 – Chairman Minute he would like the wording “On behalf of the NYSRC Clayton thanked A. Adamson for his outstanding service to ICS.” A. Adamson suggested a change to section 7.1 to include the words “Renewable Energy” to the description of the NYISO RNA scenario. B. Ellsworth made a motion to approve the minutes of Meeting #247 including the proposed 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 #248 posted on the NYSRC website.
22. **Review of Outstanding Action Items List – Attachment #2.2** – H. Schrayshuen stated that the previously sent Action Items list has been modified. Per Policy 2 the modifications to the Action Item List results was provided in hard copy at the meeting. The website will be updated to reflect the late changes AI-249-9. H. Schrayshuen

reviewed and updated the new 2020 Action Item List based on the EC member comments. P. Gioia requested an action item to post the open position for an Unaffiliated Member.

A. Adamson commented on action item #248-4. A. Adamson stated he spoke to John Adams on the “transition study guide.” During the January 2018 ICS meeting, the ICS agreed to replace the “guide” with postings of all of the whitepapers related to modelling on the website, under the page - IRM Model Whitepapers. This process was implemented to provide a “living history” of ICS modelling activities.

### **3. Organizational Issues**

- 31. Summary of Receipts & Disbursements – A. Adamson** – A. Adamson stated that all but one member has paid the Call for Funds for the first quarter of 2020.
  - 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 December 2019, noting the end of month balance of \$183,091.19, this includes first quarter call for funds payments of \$80,000 and a \$25,000.00 prepayment. The 2019 audit has been started and the EC members will be sent a letter for information pertaining to the audit. M. Sasson pointed out that the call for funds and the actual expenses were in line with each other this year and are expected to get closer in 2020. M. Sasson thanked A. Adamson for his efforts as Treasurer.
- 32. Review and update EC Roster – H. Schrayshuen – Attachment #3.2** – H. Schrayshuen reviewed the NYSRC EC Roster. H. Schrayshuen asked for everyone to look at their information and email him any changes. (AI-249-10)
- 33. 2020 Code of Conduct Review – P. Gioia – Attachment #3.3** – H. Schrayshuen **said** that Code of Conducts reviews are due by the February Meeting and asked for all completed Code of Conduct forms to be sent to the EC Secretary if not already having done so. (AI-249-11)
- 34. Other Organizational Issues** – P. Gioia stated that he submitted the IRM filing and IRM to FERC on December 19, 2019 and that formal notification was sent to the NYISO. C. Patka stated that the NYISO received the letter and filed comments with FERC supporting the NYSRC’s 2020 IRM filing. P. Gioia also stated that the IRM study and the Committee Decision Notice were sent to the Public Service Commission (PSC). He said the PSC does not need to approve the IRM since the NYSRC is not under PSC jurisdiction but that the PSC does establish a proceeding on whether or not the PSC will adopt the IRM. That proceeding is currently in process and the NYSRC will submit comments in January 2020. Historically the PSC has always adopted the NYSRC IRM.

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

- 41. ICS Chair Report – Attachment #4.1** – R. Chan reviewed attachment #4.1 – Summary of ICS meeting #227 on January 3, 2020. R. Chan stated that during the ICS meeting, the ICS reviewed the Milestone schedule and will be requesting EC approval on the schedule during the February EC meeting. ICS also prioritized the list of White Paper topics for EC approval. The topics selected by ICS are: Fix Study Year issue, Resource Adequacy with Substantial Quantities of Non-Dispatchable Resources, External Area Modeling, and Modeling Correlation of on-shore wind, solar, off- shore wind, run-of-river and landfill gas units. There was a discussion as to whether electric storage should be included to the Modeling Correlation whitepaper. R. Chan stated that ICS adding storage would depend on the modeling capabilities. R. Chan also noted that the High Renewable Whitepaper also will be finalized in 2020. M. Sasson made a motion to approve the whitepaper list as presented with the proposed changes. The motion was seconded by M. Domino and unanimously approved by the EC members in attendance (13 - 0).
- 42. Revision of IRM Process – status report – P. Gioia** – P. Gioia presented the

revisions to the Executive Committee IRM Voting Procedures. There was a brief discussion on what to do if IRM voting resulted in a tie. P. Gioia will update the IRM balloting procedures based on the discussion and present a further revision at the February EC meeting.

**43. High Renewable Resource Modeling Whitepaper – Attachment #4.3 - R.**

**Chan** – R. Chan stated that the ICS did a page turn on the High Renewable Resource Modeling Whitepaper. There are other revisions needed and ICS will discuss the whitepaper at the next ICS meeting. There was a request to send out the revised whitepaper, before the next ICS meeting (AI-249-12).

**4.3.1. High Renewable Resource Modeling Whitepaper Presentation –**

**Attachment 4.3.1 – Josh Boles** - Josh Boles presented attachment #4.3. There was discussion on how potential retirements will affect resource adequacy. Z. Smith stated that there will be more work done on resource adequacy including assumptions about retirements and other assumptions in the upcoming Reliability Needs Assessment (RNA). P. Gioia suggested that more explanation is needed on what an increase in the IRM actually means. M. Sasson suggested that there should be more definition on the concept of Unforced Capacity (UCAP) in the executive summary. H. Schrayshuen suggested to get all EC comments on the whitepaper sent to R. Chan by January 17, 2020.

In response to a question was asked on when a storage model might be available for use and the NYISO stated that a model is in development and is expected to be ready to complete the 2020 RNA.

After discussion on recommendation 3 of the Whitepaper, J. Boles stated there are efforts in the NYISO stakeholder process to develop a Tailored Availability Metric Proposal, which reviews how UCAP is calculated on all resource types. The NYISO will present an update on this effort in October 2020.

M. Sasson discussed the zonal resources dispatch shifting methodology and how that might change. There was discussion that zonal shifting should be looked at in a Zonal Shift Whitepaper. (AI-249-13).

R. Clayton thanked that the ICS and the NYISO for their efforts. He stated the development and presentation on the High Renewables Modelling whitepaper has been outstanding. He noted that working through this by taking small steps has helped bring to light some potential issues and developed more questions to be looked at, which will help as the transition to the more renewable grid continues.

A. Adamson suggested keeping a scorecard so that the various reliability issues and potential system risks, not just statewide, but at the regional level are reviewed and not overlooked. A. Adamson suggested that with the grid changing to more renewables, the IRM study should look more closely at weather/climate scenarios. R. Bolbrock and G. Smith supported A. Adamson's comment on climate change scenarios. M. Younger stated that if you are modeling a period of a number of years, weather patterns should be able to be captured. He noted that recently in the MISO region the temperature dropped low enough that a majority of the wind generators cut out due to being unable to operate when the temperature drops below a certain level. H. Schrayshuen stated that when considering the future to consider

events that occur in other geographic areas that are not modeled in New York.

P. Fedora stated that most of the discussion is resource centric. The NYSRC should look at impacts from load increases, for example electric cars.

R. Gonzales stated that the NYISO has distributed the Reliability Gap Analysis white paper and it looking to have a discussion on this topic. W. Yeomans

will bring the Reliability Gaps Analysis to the RRS in February. (AI-249-14)

Z. Smith stated he will give a presentation on Climate Change study Phase 1 results, April 2020 (AI-249-15). Z. Smith also stated the NYISO is working on some initiatives in 2020 that encompass some of the concerns that were discussed in the High Renewables Whitepaper discussion. He will provide an update on those topics when available.

#### **44. Other ICS Issues - None**

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

- 51. RRS Status Report Discussion Issues – Attachment #5.1-** R. Clayton reported on attachment #5.1 providing a summary of RRS meeting #245, which took place on January 2, 2019. There are four PRRs under development. PRR 128 is tabled pending completion of the NPCC A-10 revision. R. Clayton stated that PRR 143, Loss of Gas Supply, has been withdrawn. PRR 145 – Review of Resource Adequacy Long Term. RRS is asking the EC to post the PRR for comments. PRR is currently in development. PRR 147 – is a clarification of the NYCA IRM, this might be withdrawn after the wording for PRR 145 is developed. PRR 146 – B.2 Transmission Planning Assessments, the RRS is considering specifying the special studies (*e.g.* dynamics studies) for generator or energy storage unit interconnection. It has been decided that this will be a new rule. This PRR is currently under development.
- 52. List of Potential Reliability Rule Changes – Attachment #5.2 –** R. Clayton stated that the table in Attachment #5.2 is up to date.
- 53. Review and approval of PRR #145 for posting – Attachment #5.3 –** A. Adamson discussed attachment #5.3. A. Adamson stated that this PRR will replace the current Rule A.3. The first part will be an annual “Next Year Capability Year” Resource adequacy Assessment, 2 a biennial Long-Term Resource Adequacy Assessment and a report providing major updates to the previous Long-Term Resource Adequacy Assessment in order to inform the NYSRC of any significant changes. There was confirmation that the NYISO supports PRR #145. R. Clayton stated that PRR #145 and #147 should be approved for posting for comments together.
- 54. Review and Approval of PRR #147 for posting – Attachment #5.4 -** A. Adamson stated the current rule links Resource Adequacy to just the IRM requirements study. During the development of PRR #145 it was discussed that the NYSRC Resource Adequacy LOLE Criterion should include language to include resource adequacy analyzes as well as IRM studies to accommodate PRR #147. M. Sasson made a motion to post PRR #147 and PRR #145 for comment. The motion was seconded by F. Pace and unanimously approved by the EC members in attendance (13 - 0).
- 55. Other RRS Issues –** None to report.

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

**61. RCMS Status Report – Attachment #6.1** - R. Clayton reported on attachment #6.1, a summary of the RCMS Meeting #239 on January 2, 2020. It was reported that RCMS found the NYISO in full compliance for Real Time Operations of the NYS BPS (C8: R1) for November 2019.

**62. 2019 Reliability Compliance Program – Attachment #6.2** – R Clayton stated 2019 scorecard is up to date and will be complete with the review of the Real Time Operations of the NYS BPS for December 2019. This is will reviewed at the next RCMS meeting.

**6.2 Other RCMS Issues** – R. Clayton stated that RCMS reviewed the 2020 Reliability Compliance Monitoring Program.

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

**71. NYISO Comprehensive System Planning Process – Z. Smith – Attachment #7.1** – Z. Smith reported that the NYISO discussed the 2020 Reliability Needs Assessment (RNA) timeline at the ESPWG meeting on January 23, 2020. Z. Smith stated that the DEC Peaker Rule was finalized on December 31, 2019. The generator plans for the compliance with the Peaker Rule are due in March 2020. Those compliance plans will be used in the base case for the RNA. Z. Smith discussed the new Short-Term Reliability Planning Process which has been approved by both Stakeholders and Management Committees. The tariff change is due to be filed with FERC in February. If approved, this process will replace the current Generator Deactivation Process. The Short-Term Reliability Planning Process will provide more flexibility to the NYISO to identify reliability needs in the short term and leave the RNA to identify longer term reliability needs. Z. Smith will provide more detail if FERC approves the Short-Term Reliability Planning Process. There was an Interregional Planning Stakeholder Advisory Committee (IPSAC) meeting on December 9, 2019. There are no Interregional Transmission Projects identified. R. Clayton asked about a recent FERC Order related to minimum offer prices in PJM. R Pike stated that this topic has been in discussion for a number of years and currently does not have any spillover into New York, but does establish a precedent to watch. The NYISO is monitoring this situation. New York as kicked off a Comprehensive Mitigation Review Process to assess and conflicts that might arise in the Markets.

**72. NYISO Markets Report – R. Mukerji - Attachment #7.2** – R. Pike presented on behalf of R. Mukerji. R. Pike reviewed attachment #7.2. R. Pike stated that the NYISO has released a final version of the “Reliability and Market Consideration for a Grid in Transition.” The point of the paper is to resolve some loose ends from conversations over the past year. As market rule changes occur the NYISO will provide an update in the monthly Market Report. In December FERC approved the NYISO Energy Storage Resource Filing, nothing changes the fundamental scope of the project.

**73. NYISO Monthly Operations Report – W. Yeomans - Attachment #7.3** – W. Yeomans presented attachment #7.3. For the month of December there was a Peak Load of 23,253 MW on December 19, 2019. There were no hours of Thunder Storm Alerts and 1 NERC TLR level 3 curtailment. New York State did achieve a wind energy record for a single hour on December 14, 2019. The wind generation for hour 23 was 1,675 MW out of 1,985 MW installed capacity. There was a brief

discussion on the NYISO simultaneous activation of reserves reports in 2019.

## **8. Distributed Energy Resources (DER) – G. Smith**

- 81. Report on DER Activities – Attachment #8.1** – G. Smith presented attachment #8.1. G. Smith stated that the NERC Planning Committee met in December. There are a number of white papers being developed which include a white paper on Terminology for Fast Frequency Response and Low Inertia Systems. This paper encompasses inverter-based resources which can provide rapid power output when the system frequency is depressed. NERC is trying to develop guidance to address impacts on the Bulk Power System from distributed, inverter-based resources.

The New York Interconnection Technical Working Group (NYITWG) – met on December 18, 2019. The NYITWG is planning to setup two webinars in the beginning of 2020 (February and March) to address questions between the utilities and manufacturers regarding smart inverter functionality. The next meeting of the NY ITWG is February 6, 2020. R. Clayton questioned wither the NYITWG has visibility into the related NERC activities. G. Smith noted at present there is no plan to replicate what has been implemented in New England regarding establishing a set of interim functional requirements for inverter-based resources.

The NPCC DER Forum will be February 13, 2020 in New York City at NPCC offices. Space is limited and attendees are encouraged to participate via the web.

- 82. Other DER Issues** – None to report.

## **9. Environmental Status Report/Issues – C. Wentlent – No Report**

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

- 101. NERC Standard Tracking – A. Adamson – Attachment #10.1** – A. Adamson stated the NYSRC voted affirmative for the following standards, TPL-007-3, FAC-0002-3, IRO-010-3, MOD-031-3, MOD-033-2, NUC-001-4, PRC-006-4, TOP-003-4, CIP-002-6 on 12/6/19, IRO-001-4, IRO-002-6, IRO006-EAST-2 IRO-008-2, IRO-009-2, IRO010-2, IRO-014-3, IRO017-1, IRO-018-1 and PRC-024-2. Voting will open for standard CIP-004-7 an CIP-011-3 will begin on January 23, 2020 and end on February 3, 2020.

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

**111. NPCC Report – M. Sasson** – M. Sasson noted that the NPCC Board will meet on January 29, 2020. P. Fedora supplemented M. Sasson’s report noting that the NPCC Board will consider: Approving the NPCC 2020-2021 committee work plans and scopes revisions, the Corporate Goals proposed for 2020; and the 2019 Corporate Goal Attainment. He noted there will likely be discussion of the NPCC 2020-2023 Strategic Plan., P. Fedora also stated on January 24, 2020 a webinar is scheduled for the NPCC Reliability Coordinating Committee on to explain the changes to the NPCC A-10 document.

**112 NERC Report – P. Fedora** – P. Fedora stated the letter requesting policy input from the NERC Board of Trustees (BoT) meeting for February 5-6 meeting has been released. There was a pre-meeting of the NERC Member Representative Committee (MRC) on January 9, 2020 to review the upcoming issues for the February 2020 NERC BoT. At the MRC pre-meeting. H. Gugel (NERC)

presented the strategic recommendations from the Electromagnetic Pulse (EMP) Task Force and the Supply Chain Risk Assessment Report. The NERC BoT is requested policy input on these two topics by January 22, 2020. The membership selections for the sectors for the new NERC Reliability and Security Technical Committee (RSTC) have been announced. The NERC BoT will be considering the RSTC membership at their February 6, 2020 meeting.

**12. NAESB Activities – B. Ellsworth** – B. Ellsworth reported that the NAESB met for their annual meeting on December 10 and 11. B. Ellsworth reported there was discussion the continuation digitalization of control systems and Cyber Security Standards. H. Schrayshuen will distribute the NAESB Bulletin (AI 249-16) The next NAESB Advisory Council meeting is February 8, 2020.

**13. Visitor Comments** – No comments were offered.

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

The Open Executive Committee Meeting #249 was adjourned at 1:15pm.

**15. Future Meeting Schedule**

<b>Meeting</b>	<b>Date</b>	<b>Location</b>	<b>Time</b>
#250	February 7, 2020	Conference Call Dial in (866) 280-1753 Participant Code 6128354	9:30 AM