

Minutes
New York State Reliability Council, LLC (NYSRC)
Executive Committee (EC) Meeting No. 247
November 7, 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 – 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
Mark Domino, P.E.	National Grid, USA – Member
Rick Brophy	NYSEG and RG&E – Member
Bruce Fardanesh	NYPA – Member - Phone
Curt Dahl, P.E.	PSEG-LI– Member
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
Howard Kosel	Consolidated Edison Co. of NY, Inc – ICS Chair
Phil Fedora	Northeast Power Coordinating Council, Inc.
Leka Gjonaj	NYS Department of Public Service
David Allen	New York Independent System Operator
Josh Boles	New York Independent System Operator
Rana Mukerji	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
Ruby Chan	Central Hudson Gas & Electric
Herbert Schrayshuen	Power Advisors, LLC – EC Secretary
Erin Hogan	NY Department of State – Utility Intervention Unit
Brian Krall	East Coast Power & Gas, LLC – Phone
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. 247 to order at 9:30 a.m. on November 7, 2019. A quorum of 13 Members and Alternate Members of the NYSRC EC was established.
 - 1.1. Identification of Visitors** – Visitors in the room and on the phone were identified.
 - 1.2. Requests for Additional Open Session Agenda Items** – R. Clayton noted that there was a letter from MEUA formalizing the approval of C. Wentlent’s representation of the Municipal sector on the Executive Committee.
 - 1.3. Request for Executive Session Agenda Items** – R Clayton stated there is an executive session scheduled. No additional agenda items were requested.
 - 1.4. Report on Executive Committee meeting of October 10, 2019** – R. Clayton stated that in the previous EC Executive Session they resolved a potential conflict of interest for a consultant. He also noted that there was continued discussion regarding the NY PSC Resource Adequacy Order – Case #19-E-0530. The NYSRC comments were filed and the discussion is ongoing. There was discussion regarding a potential change to the NYSRC compensation program and that the discussion is expected to continue.
 - 1.5. Declarations of Potential “Conflict of Interest”** – There were no declarations of new potential conflicts of interest identified.

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

21. Approval of Minutes for Meeting No. 246 (October 2019) – Attachment #2.1 – H. Schrayshuen introduced the revised draft minutes of the October 10, 2019, which included all comments received as of November 1, 2019. H. Schrayshuen noted that M. Sasson proposed one minor correction to section 4.3. M. Domino made a motion to approve the minutes of Meeting #246 including the proposed change. The motion was seconded by M. Sasson and unanimously approved by the EC members in attendance (13 - 0). The EC Secretary will arrange to have the final minutes for EC Meeting #246 posted on the NYSRC website.

22. Review of Outstanding Action Items List – Attachment #2.2 – H. Schrayshuen reviewed and updated Attachment #2.2 based on the EC member comments. M. Mager reported on the Multiple Intervenors Annual conference to fulfill AI-246-2. M. Mager stated this is an annual meeting involving industry and regulatory speakers. For future events he will distribute the agenda to the EC when available. Some noted speakers were: NY PSC Chair John Rhodes, Gavin Donohue President/CEO of IPPNY, and Rich Dewey CEO of NYISO. C. Wentlent and M. Younger. There were panel discussions on the Future of Natural Gas in New York State and CLCPA. There was discussion regarding the current and future state of dependable electricity markets in New York State. There was a presentation on NYPA's evolving role in the market. R. Mukerji stated that the NYISO is reevaluating its Grid in Transition Report to incorporate more of the Climate Leadership Community Plan Action. R. Mukerji stated he would take the AI to make the EC aware of the revised report when it is completed. (AI-247-1)

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 October 2019, noting the end of month balance of \$193,128.56 includes a \$25,000.00 prepayment. The 4th quarter call for fund is complete. A. Adamson is projecting the yearend expenses are under

budget of (\$91,000.00). A. Adamson stated that he is projecting a balance of \$80,000 - \$100,000.00 going into 2020.

- 32. Other Organizational Issues** – H. Schrayshuen reminded the attendees that the location for the December 6, 2019 EC Meeting is now the NYISO. H. Schrayshuen will coordinate the meeting attendee list required by the NYISO. (AI-247-2) M. Younger stated that there is a RSVP link on the NYISO’s web calendar for the NYSRC meeting. H. Schrayshuen reminded everyone that the December meeting includes the ballot for the IRM and encouraged all voting members to come in person to facilitate the voting.

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

- 41. ICS Chair Report – Attachment #4.1** – H. Kosel reviewed attachment #4.1 – Summary of ICS meeting #225 on October 29, 2019. H. Kosel stated the NYISO presented a draft High Renewable Whitepaper for the ICS to review. The draft did not include results and a final version with results will be reviewed at the December ICS meeting. ICS also reviewed the Draft 2020 IRM Report.
- 42. Review and approval of the final IRM Base Case Results - Attachment #4.2 – EC Approval Item** – H. Kosel discussed attachment #4.2. H. Kosel presented the 2020 IRM Final Base Case. H. Kosel stated the preliminary base case was updated with the fall peak load forecast and the Tan 45 process was applied. The preliminary base case IRM was 19.0%. H. Kosel revisited the main drivers for the change in the IRM: updated External Area Modeling, the HQ Wheel (300MW) and the updated Load Forecast uncertainly with new data from 2018 and topography changes. C. Dahl asked about the LI LCR IRM decrease to which H. Kosel responded that he believed that the change was due to the updated load forecast. J. Boles will verify if that is the case (AI-247-3). R. Clayton encouraged comments regarding the base case results. R. Clayton expressed his concerns regarding the significant increase in the IRM from last year. H. Kosel stated that the actual UCAP requirement the change is about a 1.8% increase, which is consistent with recent trends. M. Younger did state that last year IRM result had an unusually large reduction. M. Sasson stated that there was a different load response to temperature changes than in 2017 which accounts for a portion of the load uncertainly. There was a discussion on behind the meter DER modeling in the future. E. Hogan praised the NYSRC on their handling of past adjustments in modeling to ensure resource adequacy. Z. Smith noted that the NYISO has a continuous reliability planning process and that some of the resource adequacy modeling issues are tackled before they comes to ICS. Even though the RNA is every other year the NYISO is constantly working on how to improve modeling. R. Clayton asked ICS to take an action to look at to DER modeling. G. Smith mentioned that the parameters that might be of interest are the amount of behind the meter solar and the amount load uncertainly. M. Sasson made a motion to approve the 2020 IRM Final Base Case Results. The motion was seconded by R. Bolbrock and unanimously approved by the EC members in attendance (13 - 0).
- 43. Request for EC member comments on the draft Technical Study Report (A) and Appendices (B) – NY Control Are Installed Capacity Requirement May 2020 to April 2021 – Attachment #4.3 A&B*** - H. Kosel asked for comments on the draft technical report to be turned in by November 15, 2019. (AI-247-4) R. Clayton asked for a footnote explaining the changes on the UCAP table. (AI-247-5)
- 44. Other ICS Issues** – R. Clayton recognized Ruby Chan as the incoming ICS Chair starting in January 2020 and thanked Howard Kosel for his efforts as Chair this year. R. Clayton asked what form the output in the High Renewables Whitepaper would take whether compensatory megawatts or IRM. J. Boles stated that the NYISO will have a draft whitepaper with an IRM calculated applying the Tan 45 method and that it will include

LCRs for discussion by the ICS. J. Boles recommended that the whitepaper materials be circulated for the December 2019 EC meeting and that a discussion on the whitepaper occur at the January 2020 EC meeting.

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 #247, which took place on October 31, 2019. There are currently 4 PRRs under development. PRR 128 is tabled pending the NPCC A-10 revision completion. R. Clayton stated that for PRR 143, Loss of Gas Supply, the NYISO has finalized the 2024 Fuel and Energy Security Study. RRS has reviewed the report and received a presentation on the study. The study was well done and provided good background but it did not address local electric transmission contingencies where you have a loss of supply but no fuel for local generation. After further discussion it was found the concern was centered around a voltage collapse. It was determined a synchronous condenser would deal with the voltage collapse concern and the PRR is being rewritten so the amount of fuel required is at the minimum needed to control voltage. PRR 145 – Review of Resource Adequacy, Long Term is currently in development. This PRR would change the NYSRC A3 rule to provide a ten-year resource adequacy outlook. The first year will be a Tan 45 calculation and the further years will be based on the NYISO RNA results where zonal requirements in terms of compensatory megawatts will be identified. A draft is in the works. Z. Smith offered some clarification on the PRR and stated that the PRR is to revise an existing rule. R. Clayton stated that this revision brings the RNA to the NYSRC for review. P. Gioia stated that this long term report is really just informational and is a tool that the NYSRC can use to project future reliability needs and potential deficiencies. A. Adamson requested that any in depth discussion of the PRR wait until the draft PRR has been submitted to the EC. Regarding PRR 146 – B.2 Transmission Planning Assessments, RRS is looking at special studies (e.g. dynamics) for generator or energy storage unit interconnection. RRS is currently working on a draft PRR and looking at reference documents published by IEEE, NERC and NPCC.

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. Other RRS Issues – R. Clayton stated that Indian Point 2 is going out of service in April. He noted action item 227-2:

The Executive Committee hereby approves the removal of Exceptions 8, 17 and 18, contingent on the retirement of the Indian Point generating units. Con Edison and the NYISO will submit a statement to the NYSRC before the exceptions are actually removed to confirm that, under the system conditions that exist at that time, the removal of the exceptions will not result in any reliability criteria violation.

M. Sasson stated that Consolidated Edison and the NYISO will make a statement satisfying the requirement of the action item to remove the contingencies, in the March 2020 NYSRC EC meeting. (AI-247-6)

R. Clayton stated that the NYISO report Fuel and Energy Security In New York State is provided attachment #5.3. He encouraged members to review the report. R. Clayton stated that the NYISO will give a presentation on the report in a future EC meeting. (AI-247-7)

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 #237 on October 31, 2019. R. Clayton reported that RCMS found the NYISO in full compliance for Real Time Operations of the NYS BPS (C8: R1) for September 2019. RCMS also found the NYISO in full compliance for GO Dual Fuel Capability Testing of Combined Cycle Units (G.2:R6), Con Ed Identification of Eligible Black Start Units (G.4:R2). RCMS also found the NYISO in full compliance for 2019 NYCA Transmission Review with the caveat of potential further review if NPCC’s review requires revisions.
- 6.2 **2019 Reliability Compliance Program – Attachment #6.2** – R Clayton stated scorecard is up to date. A. Adamson stated that item, B.2:R1, NYCA 2018 Transmission Review was recently added to the scorecard.
- 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 that the on October 18, 2019, New York Transco filed the Article VII application for Segment B with the NYPSC (Case No. 19-T-0684).
- 7.2. **NYISO Markets Report – R. Mukerji - Attachment #7.2** – R. Mukerji reviewed attachment #7.2. R. Mukerji pointed out there is a new item on the Market Report, Demand Curve Reset. The NYISO is in discussion with stakeholders on what would be a Cost of New Entry (CONE) unit. NYISO is currently going through the stakeholder process considering what technology would qualify for use as CONE. , considering fuel impediment, siting impediment, and permitting impediment as well as consideration of renewable and/or storage technologies as a viable CONE unit.
- 7.3. **NYISO Monthly Operations Report – W. Yeomans - Attachment #7.3** – W. Yeomans, presented attachment #7.3. For the month of October there was a Peak Load of 23,774 MW on October 2, 2019. There were four hours of Thunder Storm Alerts and no hours of NERC TLR level 3 curtailment. W. Yeomans noted that solar generation does account for a notable percentage of the generation during the peak in summer but currently produces no contribution to serve the peak demand in winter. There were two Major Emergency declared on 10/13/2019. The major emergencies were reviewed by RRS. NYISO indicated an interest in discussing the process for defining major emergencies with the RRS at some point in the future..
 - 7.3.1. **Presentation of NYISO 2019 Summer Hot Weather Operations Conditions – Attachment #7.3.1** – W. Yeomans presented attachment #7.3.1 – W. Yeomans stated that the summer was not really hot. There were no reliability issues this past summer. There were two heat waves, July 18 - July 21 and July 29 - July 30. The peak load was below the 50/50 forecast for the 6th consecutive summer. The actual peak load was 30,397MW on July 20, 2019.
 - 7.3.2. **Presentation of Winter 2019-20 Capacity Assessment – Attachment #7.3.2** – W. Yeomans presentation attachment #7.3.2. He noted that last winter’s peak load was January 21, 2019 of 24,728MW. The all-time winter peak was 25,737MW on January 7, 2014. W. Yeomans stated that generating capacity is not expected to be an issue in the coming winter. The main issue is if there is an extended cold snap and if a unit burns fuel at a faster rate than the fuel replacement rate, replacement fuel availability could become an issue. The Fuel Assurance Study has taken a more in-depth look at the issues and that study will be presented to the EC in January. The NYISO does require a weekly report of fuel on-site from generating plants. There is no new infrastructure maintenance

planned as compared to last year. P. Fedora asked about a safety inspection of the Enbridge gas pipelines. W. Yeomans stated that Enbridge experienced a gas pipeline rupture outside of NY State. Enbridge is reviewing all of its infrastructure for similar weaknesses. They have found similar characteristics to the failed pipeline on other pipelines in their portfolio. Customers that receive service from those pipelines have been put on notice that there will be a reduction in service (reduced pressure operation) to prevent future ruptures.

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

81. Report on DER Activities – Attachment #8.1 – G. Smith reviewed attachment #8.1. NPCC had a DER workshop on October 17, 2019 noting that NERC provided an overview on their DER efforts. G. Smith also mentioned a company called STEM which is able to provide DER aggregation services. G. Smith did mention this product to NY Interconnection Technology Working Group (ITWG) G. Smith also R. Clayton stated that at RRS has been looking at the specific TO DER technology requirements and RRS is looking into a possible rule. G. Smith noted that the NY ITWG has stated that they do not see a need to develop detail technical requirements for inverter based resources. The H. Schrayshuen will distribute the link to the NPCC DER Forum. (AI-247-8). G. Smith stated that the summarized the NERC SPIDER WG meeting at the last EC meeting. There was a NERC Industry webinar on October 11, 2019 showing a reliably guideline improvements to interconnection requirements for BPS connectors. This guideline is acting as a bridge until the IEEE 2800 project moves forward. There was a meeting of the NY ITWG on October 30, 2019. Some topics included discussion on NYISO/NYSIR coordination, a monitoring and control update by JU WG and a follow up on smart inverter functionality by JU WG. The next NY ITWG is December 18, 2019 at NYSERDA. R. Clayton stated that IEEE 1547 is only applicable to distribution connected DER and the IEEE 2800 is going to be applicable to everything else on the other side of the meter. He stated that ISO NE felt that the IEEE 1547 was inadequate enough to set their own standard and NY should look into that.

82. Other DER Issues - None

9. Environmental Status Report/Issues – C. Wentlent – C. Wentlent noted that the comments in the NYPSC Resource Adequacy case are due November 8. C. Wentlent stated he will review the comments and report at the next EC meeting. (AI-247-9). The DEC is still working on the final rule package for the Peaker Rule. Cayuga Unit 1 submitted its formal deactivation notice and mothball the unit as of October 31, 2019. Indian Point submitted its formal deactivation notice for Unit 2 with a spring 2020 date and stated Unit 3 will retire in 2021. At the TPAS WG the NYISO announced a phase 2 Climate Change Study with a 100% zero carbon goal in 2040. He noted that Pennsylvania still has interest in joining the RGGI program. The recent election result in Virginia could lead to a re-consideration for the legislature to support joining RGGI.

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

10.1. NERC Standard Tracking – A. Adamson – Attachment #10.1 – A. Adamson stated the NYSRC voted yes for BAL-003-1.1 and the standard passed. The NYSRC abstained on PRC-024-2 and that standard passed. M. Sasson stated that he thought the current NERC Standard ballot vetting process is working well. A. Adamson concurred.

11. Reliability Initiative – G. Smith – G. Smith stated that the CEII version of the

Reliability Initiative report is on the NYISO website. The Non-CEII public version of the final reported has been sent to NYSERDA for review and formatting. R. Clayton asked G. Smith to distribute the link to the Non-CEII public version to the EC and G. Loehr (AI-247-10). This concludes this project and there will be no further standing EC agenda item for the Reliability Initiative.

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

121. NPCC Report – P. Fedora – P. Fedora sent out the announcement for the NPCC General Meeting in Montreal. Some topics include: Hydro-Québec will provide an overview of the activities underway related to the digitalization of the grid. The New York ISO has been invited to present the plans to provide reliability and a greener grid in their Power Trends 2019. Gabriel Adam, Senior Manager – Engineering Studies at the Ontario IESO will present the Ontario initiatives for distributed energy resources integration. Michael Henderson, Director Regional Planning & Coordination at ISO-New England will describe the initiatives in their recently approved 2019 Regional System Plan. The General meeting closes with a presentation by Stephen Leahy, Vice President, Policy of the Northeast Gas Association, regarding the natural gas outlook.

There is an annual meeting of the NPCC Members is December 4, 2019. FERC staff will be attending the meeting and discussing the FERC/NERC January 2018 Cold Weather Event Report, their recommendations and the need for follow-up action in the region.

The NPCC Task Force of Coordination of Operations has been reviewing NPCC cold weather procedures, which will be discussed at the NPCC RCC meeting on December 3, 2019. Other agenda items at the RCC meeting will include A-10 revision, which if approved this would go to member ballot, the winter reliability assessment, the Tie benefit report which covered the term 2020-2024.

The next NPCC Board meeting is scheduled for December 4, 2019.

122. NERC Report – P. Fedora – P. Fedora stated that the NERC BOT and the MRC met on November 6, 2019 in Atlanta. NERC BOT approved the ERO RISC Priority Report; the BoT also reviewed the recommendations from the EMP Task Force. The NERC BOT approved the technical committee restructuring plan and the formation of the Reliability and Security Technical Committee to replace the NERC Operating Committee, the Planning Committee and the Critical Infrastructure Protection Committee by mid-year 2020.

There are two upcoming webinars; the November 8, 2019 DER_A Guideline on Modeling webinar and the Long Term Reliability Assessment review webinar. Announcements of these events will be sent out by H. Schrayshuen. (AI-247-11).

There is a Probability Analysis Forum scheduled for December 11-13 at NERC in Atlanta. NERC posted a guideline on Fuel Assurance for Gas/Electric coordination for comment.

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

14. Visitor Comments – No comments were offered.

15. Adjournment of the EC Open Meeting

The Open Executive Committee Meeting #247 was adjourned at 1:05pm.

16. Future Meeting Schedule

Meeting	Date	Location	Time
#248	December 6, 2019	NYISO Krey Control Center 10 Krey Boulevard, Rensselaer, NY 12144	9:30 AM