

DRAFT Minutes
New York State Reliability Council, LLC (NYSRC)
Executive Committee (EC) Meeting No. 221
September 8, 2017
Albany Country Club
300 Wormer Rd, Voorheesville, NY

Members and Alternates

In Attendance:

Curt Dahl, P.E.	PSEGLI Member – EC Chair
Roger Clayton, P.E.	Unaffiliated Member – EC Vice Chair, RRS Chair, RCMS Chair
George Loehr	Unaffiliated Member
George Smith, P.E.	Unaffiliated Member
Bruce Ellsworth, P.E.	Unaffiliated Member
Richard Bolbrock, P.E.	Municipal & Electric Cooperative Sector – Member
Patricia Caletka	NYSEG and RG&E –Proxy for Rick Brophy
Frank Pace	Central Hudson Gas & Electric – Member
Martin Paszek	Consolidated Edison Co. of NY, Inc.– Proxy for Mayer Sasson - Phone
Mark Domino, P.E.	National Grid, USA-Alternate Member
Sunil Palla	New York Power Authority (NYPA) – Member
Mike Mager	Couch White (Large Consumer) – Member
Matt Schwall	Independent Power Producers of NY – Member
Mark Younger	Hudson Energy Economics, LLC (Wholesale Sellers) – Alternate Member

Other Attendees:

Paul Gioia, Esq.	Whiteman, Osterman & Hanna, LLP – Counsel
Al Adamson	NYSRC Treasurer and Consultant
Mariann Wilczek	PSEGLI – ICS Chair
Carl Patka, Esq.	New York Independent System Operator (NYISO)
Yachi Lin	New York Independent System Operator (NYISO)
Rana Mukerji	New York Independent System Operator (NYISO)
Josh Boles	New York Independent System Operator (NYISO)
Rick Gonzales	New York Independent System Operator (NYISO)
Vijay Puran	NYS Department of Public Service
Philip Fedora	Northeast Power Coordinating Council Inc.
Herb Schrayshuen	NYSRC EC Secretary

Visitors - (Open Session):

“*” Denotes part-time participation in the meeting

- 1. Introduction** – C. Dahl, EC Chair, called the NYSRC Executive Committee Meeting No. 221 to order at 9:30 a.m. on September 8, 2017. A quorum of thirteen Members, Alternate Members or proxies for Members of the NYSRC EC was established.
 - 1.1. Visitors** – The visitors and attendees on the phone were identified.
 - 1.2. Requests for Additional Agenda Items** – There were no additional agenda items proposed. Agenda item # 11.3.1 regarding the status of in-city Black Start generators was deferred to the October meeting of the EC. The Agenda Exhibit #1.2 was approved as modified.
 - 1.3. Executive Session Topics** – No executive session topics were identified or requested.
 - 1.4. Declarations of “Conflict of Interest”** – There were no declarations of conflicts of interest.
- 2. Meeting Minutes/Action Items List**
 - 2.1. Approval of Minutes for Meeting No. 220 (August 11, 2017)** – H. Schrayshuen introduced the revised draft minutes of the August 11, 2017 EC Meeting (Attachment #2.1) which included all comments received. No further modifications were proposed. B. Ellsworth made a motion to approve the minutes of Meeting #220. The motion was seconded by R. Bolbrock and unanimously approved by the EC members in attendance (13 - 0 with no abstentions). The EC Secretary will arrange to have the final approved minutes for EC Meeting # 220 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 that several open actions items would be resolved in the course of the meeting. He further noted that action regarding several action items from Meeting #220 have been completed and moved to the completed action item list. The due date for AI # 220-4 was changed to the October EC Meeting in response to the request of the NYISO to defer the discussion of Black Start matters. A. Adamson reported that the updated Exception List to the NYSRC Reliability Rules and Compliance Manual was posted to the NYSRC website on September 1, 2017.
- 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 August. He reported that the NYSRC was projected to be \$130,000 under budget by year end. He reported also that a call for funds for the fourth quarter of 2017 would be issued shortly after the EC meeting in the amount of \$20,000 for each Transmission Owner. R. Bolbrock made a motion to approve the call for funds. G. Smith seconded the motion which was unanimously approved by the EC members in attendance (13 - 0 with no abstentions).
- 4. Installed Capacity Subcommittee (ICS) Status Report/Issues** – M. Wilczek, ICS Chair – Attachment #4.1
 - 4.1.** M. Wilczek presented the ICS Status report in Attachment #4.1. She provided a line item by line item review of the parametric analysis and the effect of each parameter on the IRM as shown in attachment #4.1. M. Mager noted the counter intuitive results that were seen with addition of new generation in the southeast raising the IRM, rather than reducing it. The EC discussed the anomaly. M. Wilczek reported that the NYISO has engaged GE to assist with the issue. J. Boles reported that the anomaly was related to the Random Seed Generator Algorithm. The NYISO developed a workaround to the issue to produce the parametric results while GE is developing a software revision. The NYISO will test GE’s revised software and will compare it to the results from the Tan (45) method so that the new software may be used in the preparation of the final base case. At this time there is no projected impact of this issue to the IRM process and results. M. Wilczek reported that the following topics will be added to the next IRM report; new Emergency Assistance methodology, behind the meter net generation resources, the NYISO’s deactivation study on Indian Point and the renewable resource sensitivity.

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

5.1. RRS Status Report & Discussion Issues – Attachment #5.1

5.1.1. R. Clayton reported on the status of the RRS activity identifying that there are two PRRs under development, PRR 128 (BPS) and PRR 138 (Loss of Long Island Gas Supply). PRR 128 addresses alignment with the NPCC A10 BPS definition method including the detail regarding radial transmission. M. Paszek provided an update on the NPCC project to review and modify the NPCC method for identifying critical facilities noting a presentation will be made in December of 2017. R. Clayton noted that some of the proposed methods for identifying critical facilities involved both bright line determinations and performance testing approaches. P. Fedora commented that the development effort is still underway and not final. He further noted that NPCC has a specific link on their home page of its website for those that want to follow the project developments. PRR 138–G3.R1&R2 is a clarification of reporting requirements related to loss of Long Island gas supply remains under development. The plan is to clarify what information LIPA is obligated to report to the NYISO and what information the NYISO is obligated to report to the NYSRC RCMS. This project continues to be under development.

5.2. New/Revised Reliability Rules Outstanding – Attachment #5.3

5.2.1. After completion of the Long Island rule, a similar project for Loss of Gas supply for ConEd will be undertaken (future PRR 139).

5.3. Proposed Reliability Rule Revisions – Attachment # 5.4.1

5.3.1. PRR #137 for the retirement of NYSRC Rule D.2 had not received any comments. R. Clayton stated that the RRS discussed the proposal at its most recent meeting and recommended that PRR #137 be approved by the EC. A motion to approve PRR #137 was made by G. Loehr and seconded by G. Smith. PRR #137 was unanimously approved by the EC members in attendance (13 - 0 with no abstentions).

5.4. Other RRS Issues

5.4.1. R. Clayton and A. Adamson reported that Version 41 of the NYSRC Reliability Rules & Compliance Manual is ready for posting noting the changes called for in PRR#137 and addressing a change in the definition of radial facility. The NERC standards references in the manual were updated to conform to the current NERC standards.

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

6.1. 2017 Reliability Compliance Program – Attachment #6.1

6.1.1. R. Clayton reviewed the RCMS report of RCMS meeting #211. He reported the NYISO in full compliance with NYSRC requirements under Real Time Operations (C.8:R1) for July 2017, List of NYS BPS Facilities (B.3: R1 to R3), NYISO Requirements for Con Edison Operating Procedures G.1:R1,2,4,5), NYISO Requirements for Con Edison Operating Reserves (G.1:R3,6), Con Edison Operating Procedures and Reserves (G.1:R7), Con Edison Loss of Gas Supply (G.2:R1), Con Edison Loss of Gas Facilities (G.2:R2). R. Clayton noted that most of the compliance items for 2017 are completed and the 2018 compliance program and schedule is under development by A. Adamson.

6.2. RCMS Status Report –Attachment #6.2

6.2.1. As reported above.

6.3. Other RCMS Issues

6.3.1. No other RCMS issues were identified

7. Environmental Report – R. Clayton

- 7.1.** Call with NY DEC – R. Clayton provided an overview of Attachment #7.1, the notes from the August 17 meeting with the NY DEC. He noted that the forum is effective and delivering good interaction. He noted there was a great deal of discussion regarding the proposed environmental regulations impacting generation in the lower Hudson Valley noting that up to 3000 MW of generation potentially impact. It was further noted that C. Wentlent of Constellation suggested a holistic study be conducted taking into account all regulations current and prospective environmental rules. The NYISO performs this analysis within the Reliability Needs Assessment. To avoid duplication R. Clayton has asked for a list of all rules and potential rules to be shared with the NYISO with the suggestion that there be a discussion of the matter. C. Patka identified that a scenario evaluation of the impact of pending environmental regulations is part of the normal process for the Reliability Needs Assessment. Additionally he noted that there is a scenario conducted to determine the level of compensatory MWs needed to maintain resource adequacy on a zonal basis. He suggested that concerns about the pending and proposed environmental regulations should be incorporated in the next RNA to be commenced in January 2018. C. Patka said that these concerns should be brought to the NYISO ESPWG for consideration in the next RNA. R Clayton proposed that he promote a meeting between NYISO Staff and C. Wentlent. **(AI 221-1)**. Another meeting is scheduled for October. M. Mager asked whether the meetings are helping to sensitize the NY DEC to the effect of their environmental rules on electric reliability. It was concluded that the meetings with the NY DEC are having a positive impact regarding mutual understanding. R, Clayton provided a list of environmental rules for the EC to review. The list was circulated for EC Member information.
- 7.2.** Discussion of NYS DEC Peaker Pre-Proposal - R. Clayton provided an overview of Attachment #7.2, a proposed rule to reduce NOx emissions from peaking units (CTs) in Zone J. R. He reported that discussions with the generator sector reveals that up to 3,000 MW of capacity in Zone J may be impacted by the proposed lowering of NOx limits and the phase out of averaging scheduled for implementation in May 2022 under the proposed rule. The NY DEC is moving ahead with the draft rule to be released by the end of September 2017.

8. NERC/NPCC Standards Tracking – A. Adamson

- 8.1.** A. Adamson provided an overview of Attachment #8.1.
- 8.1.1.** A. Adamson reported on the NERC standards out for industry approval listed in the attachment. NYSRC voted consistent with NPCC's recommendations.

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

- 9.1. MDMS Phase 2 Project Status – G. Smith** reported that there have not been any developments related to the MDMS Phase 2 project, but that we may hear from NYSERDA regarding the proposal for funding before the end of September 2017.

10. State/NPCC/Federal Activities

10.1. NPCC Board of Directors Report – M. Forte

The EC members were directed to the report of M. Forte regarding the changes to NERC Standard CIP-012-2 regarding control center definition and the cyber security requirements. There was no report regarding NPCC Board activities.

Additional Topics Covered during Agenda Item 10:

DOE Grid Report

H Schrayshuen provided an overview of the DOE Staff Report to the Secretary on Electricity Markets and Reliability (aka State of the Grid Report) which was distributed to the EC members prior to the EC meeting. He asked whether the EC felt there was a need to comment or react to the DOE report. G. Smith noted that the report focuses on resilience and identified a strong parallel with the NYSRC MDMS related activity. P. Gioia noted that NY State is using the term resilience more often also. It was noted that there is not common definition for the term resilience. R Mukerji noted that the DOE report advocates for market reforms to address Essential Reliability Services and other market related efforts. B. Ellsworth noted that the NAESB Board was provided with a National Academy of Science report on resilience. He committed to share the report **(AI 221-2)**.

NERC Lesson Learned on Loss of Wind Turbines due to Transient Voltage Disturbances on the Bulk Transmission System

H Schrayshuen provided an overview of the recent NERC Lessons Learned release regarding Wind Resource Ride through capability which was distributed to the EC members prior to the meeting. G. Smith noted that the ride-through capability is limited in order to protect the machinery. He proposed that this technical issue would be examined in the MDMS2 study.

10.2. NPCC Report_– P. Fedora

P. Fedora reported that the NPCC Board of Directors held a Strategy session on September 6th and discussed the reliability risks and related issues facing NPCC. He said that NERC has requested Regional input for consideration by the NERC Reliability Issues Steering Committee. He highlighted the following items from the September 6th NPCC Reliability Coordinating Committee (RCC) meeting: 1) the RCC recommended the revised Directory No. 8 - “System Restoration” be submitted to NPCC Full Membership for approval; 2) the RCC reviewed and approved the “NPCC Winter Multi Area Reliability Assessment for 2017/2018” - the assessment will be released publicly in December - P. Fedora will provide a link at that time; **(AI 221-3)** and 3) the Ontario, New York and New England areas summarized the status of their respective nuclear units. The NYSRC-EC then discussed the winter assessment’s assumptions and findings.

11. NYISO Status Reports/Issues

11.1. NYISO System and Resource Planning Status Report, June, 2017- Chi Lin – Attachment #11.1 Y.

Lin reviewed the status of the selected planning activities outlined in attachment # 11.1. NYISO has commenced the Indian Point Analysis. She noted that CARIS assumptions have been proposed.

11.1.1. Indian Point Generator Deactivation Assessment

Y. Lin presented the NYISO plan for assessing the impact of the retirement of the Indian Point Nuclear Station. The results of the study will be fed into the RNA. The IP study will focus on specific years within the RNA planning period. The assessment is a NYISO informational study. There is no specific tariff guidance for the study effort but the NYISO is conducting the study in accordance with its reliability planning procedures. If the NYISO identifies reliability needs as a result of the retirement that information will move into the RNA process. M Mager asked how the NYISO generator deactivation process interacts with the study effort. C. Patka outlined the deactivation process in the NYISO Tariff describing the options open to the NYISO in the event a reliability need is identified. Both long term and short term transmission solutions would be examined in addition to operational procedures and demand side measures. The need can also be

characterized as a short term, long term, and as local or bulk power system related. There was extensive discussion regarding possible reliability need situations and how they may be addressed. A presentation regarding findings is planned to be provided to the NYISO ESPWG in Q4 2017. The period of study will include the year 2023. Y. Lin reviewed the transmission, generation and load forecast assumptions with the EC members. Sensitivity to future generation project in service uncertainties were reviewed. R. Clayton asked whether there were sensitivities in the SRIS for the new generation that examined the retirement of Indian Point. Y. Lin pointed out that there have been prior studies which examine the system with and without Indian Point. There will also be sensitivities for the success or failure to place major new generation in the southeast in service. M. Younger advised the EC that information regarding the Indian Point matter are also reviewed in the “Zones at Risk” studies performed by the NYISO. Y. Lin reviewed the firm transfer assumptions that will be in the base assumptions. NYISO’s ESPWG has reviewed the assumptions for the study. The Indian Point assessment will be completed in Q4 2017. A. Adamson reported that the NYSRC will include a status report on the Indian Point Assessment in its upcoming IRM report.

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

R. Mukerji reviewed his written report on several topics. Regarding the LCR process, he noted that transmission security limits are being examined. A more detailed presentation for stakeholders is planned in the near future. The NYISO is continuing analysis and discussions on the viability and stability of the process, and expects to seek stakeholder approval of the concepts in November. With regard to exports from localities he noted that there has been some progress on an alternate approach to identifying capacity export from localities proposed by the NY TOs. There is a new simplified method using the MARS outputs. GE has been engaged to review the concept. Consideration is being given to a simplified model proposed by the NY TOs. There is a pilot program on Distributed Energy Resources which will demonstrate the possible approaches. He noted that the zone elimination project is changing and expects to provide future reports on progress. The NYISO has expanded discussions to consider sound reliability criteria, such as resource adequacy and transmission security, as applicable to both the creation and elimination of zones. Regarding the PJM Pseudo-Tie case R Gonzales informed the EC of a recent Protest filed by the NYISO in the PJM Pseudo Tie Case. P. Gioia will circulate the filing (**AI 221-4**).

11.3. NYISO Monthly Operations Report –R. Gonzales – Attachment #11.3

R. Gonzales reported on the operating results for August 2017 as outlined in Attachment 11.3. He noted that August weather was particularly mild and the peak for the month was 700 MW less than July. A test of the Special Case Resources was conducted on August 24, 2017. The second Ramapo PAR is expected to be in service September 12. A solar magnetic disturbance has been underway. Ground induced currents were detected. The NYISO has been operating in a reduced transmission loading mode.

11.3.1. Report on the August 21, 2017 Eclipse

R. Gonzales reported on the impact of the August 21, 2017 eclipse noting that the generation reduction forecast was relatively accurate and the load reduction was much greater than projected. The load rebound after the eclipse was 400 MW more than expected possibly due to high humidity and not so much due to the eclipse. This report fulfils AI 220-8.

12. NAESB Report – B. Ellsworth

There were no NAESB activities to report.

Additional Topic:

M. Mager discussed the article he circulated on the topic of the Dragon Fly 2.0 vulnerability to cyber security for control centers. P. Gioia recommended that the article be brought to the attention of the NYISO security functions. R. Gonzales pointed out the NYISO has no SCADA control of utility facilities.

13. Visitor Comments

There were no visitor comments.

14. Adjournment of the EC Open Meeting

Executive Committee Meeting #221 was adjourned at 11:15 A.M.

15. Future Meeting Schedule

Meeting No.	Date	Location	Time
#222	October 13, 2017	Albany Country Club, Voorheesville, NY	9:30 AM