Final Minutes

New York State Reliability Council - Installed Capacity Subcommittee (ICS)
Meeting #280 – August 29th, 2023
Microsoft Teams

Attendees	**Present**	**Phone**
Members / Alternates:		
Brian Shanahan (National Grid) **ICS Chair**	☒	☐
Noor Leghari (NYSEG/RG&E) **ICS Vice Chair / Secretary**	☒	☐
Clay Burns (National Grid)	☒	☐
Ruby Chan (CHG&E)	☒	☐
Sanderson Chery (Con Edison)	☒	☐
Ayman Elkasrawy (NYSEG/RG&E)	☒	☐
Mike Mager (MI)	☒	☐
Mark Younger (Hudson Economics)	☒	☐
Advisers/Non-member Participants:		
Alan Ackerman (CES)	☒	☐
John Adams (ICS Consultant)	☒	☐
Leen Almadani (CHG&E)	☒	☐
Andrea Calo (CES)	☒	☐
Jie Chen (Potomac)	☒	☐
Adam Evans (DPS)	☒	☐
Grant Flagler (Con Ed Energy)	☒	☐
Kenneth Galarneau (Rise Light & Power)	☒	☐
Ricardo Galarza (PSM Consulting)	☒	☐
Karl Hofer (Con Edison)	☒	☐
Yvonne Huang (NYISO)	☒	☐
Gary Jordon (ICS Consultant)	☒	☐
Scott Leuthauser (HQUS)	☒	☐
Tim Lundin (LS Power)	☒	☐
Randy Monica Jr. (DPS)	☒	☐
Bill Acker (Unknown)	☒	☐
Otito Onwuzurike (NYISO)	☒	☐
Ben O'Rourke (NYISO)	☒	☐

Julia Popova (NRG) ☒ ☐
Max Schuler (NYISO) ☒ ☐
Sushil Silwal (NYISO) ☒ ☐
Syeda Lubna (NYISO) ☒ ☐
Lucas Carr (NYISO) ☒ ☐
Christina Duong (NYISO) ☒ ☐
Mikaela Lucas (NYISO) ☒ ☐
Bianca Prinsloo (NYISO) ☒ ☐
Abdul Mohammed (NYISO) ☒ ☐
Benjamin Cohen (NYISO) ☒ ☐
Anthony Abate (NYISO) ☒ ☐
Henry Fox (NYISO) ☒ ☐
Patrick Danner (NYPA) ☒ ☐
Kristine Agati (AVANGRID) ☒ ☐
Marie Chesnick (Unknown) ☒ ☐
Pallas LeeVanSchaick (Potomac) ☒ ☐
Richard Bratton (Unknown) ☒ ☐
Thomas Primrose (PSEG LI) ☒ ☐
Caroline kucher (Unknown) ☒ ☐
Majdi Baccouche (Avangrid) ☒ ☐

1. Roll Call – N. Leghari

- Roll call was conducted.

2. Introduction and Request for Additional Agenda Items - B. Shanahan

- Y. Huang – NYISO has announcements. Abdul Mohammed has joined Y. Huang's group.
- B. Shanahan – Roger Clayton helping on Reliability Council goals for next year. Fulling the 2024 Strategic Plan goals. First item is implemented transition from calendar to capability year and the action would be to present the scope of required changes to EC.
- Y. Huang – We can come back discuss what is needed to address capability year and calendar year.
- B. Shanahan – Y. Huang will talk to Gary and present the scope to EC.
- B. Shanahan - Review emergency assistance from neighboring systems on regional wind and solar low conditions. present scope for required changes to EC.
- B. Shanahan - Review of resource adequacy covering impact of load electrification, major spot loads, fossils resource retirements. Presented scope for required changes to EC.
- Y. Huang - Start thinking to add that in the Strategic Plan. Take this issue in next 2 years.

- B. Shanahan – Review the goals again. Initiate thinking about it for next year. Start getting the goals finalized by September meeting.

3. Approval of Minutes for Meeting #279 – B. Shanahan

- Minutes of Meeting #279 was approved.

4. Review of Action Items List – B. Shanahan

- Action items list was discussed and agreed.
- 279-1 - J. Adams sent the revised presentation to Gary.
- J. Adams – Discussed revised presentation on 279-1.
- M. Younger – Need to see analysis that's based on the 9300 code events being removed. Need one more scattered plot.

5. Chair update on recent EC actions – B. Shanahan

5.1 Resolution of EC Action Item for ICS (Neighboring OSW modeling)

5.2 Response to EC Action Item for consistency between EOP steps and actual operating procedures – Y. Huang

- Y. Huang – Gave the background, EC discussion and the question raised.
- OP model is designed to align with the data had operating manual when operating reserve is in a deficiency.
- Do a quick test result just to confirm that changing the sequence of the EOP step 4,5 and 6 would not have any impact on the study we can set circulate that around with the ICS.
- Final case develops explicitly model this as a separate step for the parametric study.

6. Review of PBC table 6-1 – For Acceptance – G. Jordan / J. Adams

- G. Jordan - Preliminary Base Case Table 6-1 was presented.
- Question - How much of change is driven by shifting out several units in New York City and replacing them upstate.
- Y. Huang - Relationship exists in past there is location differences in MW in J value more because it's closer. second piece is that the forced outage rate is better in NY city versus Upstate and like higher up before the units. Relationship exist that's where we know typically understand the curve. Effectiveness of MW in J reduced. Once the transportation system is improved you can transport a lot more MW from upstate to down state.
- B. Shanahan – Do we have any objection to accepting the PBC Table 6-1
- M. Younger - The end of the Tan45 run on the base case was a substantially different number than the end of the parametric steps so how do you go about adjusting the initial unadjusted parametric step values?
- G. Jordan - I took the impact of the two cases where we did the Tan45 and what the impact of the DC transmission and the impact was of the transmission cable.
- Y. Huang – Don’t need to present it to EC for approval because these only capture the parametric result for PBC assuming you have additional drivers in a final base case stage.

7. Standing Sensitivity Case Results – H. Fox / B. Prinsloo

- M. Younger - We have a longer presentation where 6A and 6b are two flavors of a NYISO recommendation that we should be changing the assumption of the emergency support. The presentation shows the same results as the Sensitivity Case results. 7a and 7b just to see at what point a combination of unavailable New York resources combined with the emergency limits which seem to start parsing some kind of real problem but I would like to clarify that 7A and 7B are not at all recommendations that this point.
- Y. Huang - 6A definitely is a recommendation recommended by a modeling and that's a full Tan45 sensitivity 6B is a twist to the recommendation just to try to see what happens if we adjust winter assumptions slightly differently and then all the 7A and 7B was trying to see what for risk I think Lucas's presentation is going to go through that and trying to get key learnings out of it.

8. Emergency Assistance Modeling Sensitivity Case Results (6a and 6b) – M. Lucas

- M. Lucas - Presented the background, assumptions, results and summary of 2024 – 2025 IRM EOP Whitepaper Recommendation Sensitivity Case #6a-b.
- G. Jordan – Is there a similar concern when importing from PJM as it is from ISONE.
- Y. Huang - Recommendation is reducing from the total level and individual level.
- M. Younger - It's a bit of a concern when NYISO has applied 580 MW limit to AC interface from PJM and not apply to HTP so it's not really limiting overall deliveries to New York in theory.
- Y. Huang - Adopt the recommended EA modeling in the 2024-2025 Final Base Case (FBC). One way is adopting the sensitivity case 6a as the starting point for FBC. If we take the second pattern running the initial recommendation modeled in sensitivity case 6a as a separate parametric step in FBC and this model can be part of the parametric stuff to be quoted in the FBC database, then if that's the case this will be reflected in assumptions matrix which is out for approval at the October meeting.
- M. Younger - Prefer to have the discussion on the recommendation coming out of here that the emergency assistance limits should be part of the final base case. We can then have that discussion at the EC. Hopefully EC make the decision. If they don't, we still have to look at it.
- M. Mager – NYISO can recommend whatever it feels is the best path forward and can discuss at the EC.
- Y. Huang - We can table this at the EC because we did a promise to bring back the impact from last time we discussed and then look at the impact. EC can make a decision.

9. Emergency Assistance Modeling + Winter Gas Constraint Sensitivity Case Results (7) – L. Carr

- M. Younger – Has concerns that the two levels of magnitude 3500MW and 7000MW reduction to capacity in zones F, G, J and K. Need some description how NYISO spread it out.
- M. Mager – Suggest some rounding of numbers down to 100th percentile to be done to simplify.
- Applying 7,000 MW of winter constraints has considerable impact on the IRM/LOLE, particularly in combination with reducing winter EA to zero for higher bin/load levels.
- The number of EOP calls increases substantially when 7,000 MW of winter constraints are applied.
- winter reliability is a serious concern that will only grow over time, and it is essential that the NYISO continues to research gas constraints, winter EA, and other winter considerations to ensure the risk is properly accounted for in the IRM study.

10. Initial Final Base Case Assumptions Matrix – B. Prinsloo

- M. Younger - We don't have the sensitivity case on the Dover PAR. Did NYISO receive what the impacts on the topology are for the Dover PAR not being in servie?
- Y. Huang – (Raj) NYISO is on schedule to talk about of the updated operating limits on September 7th meeting, so they are also looking into potentially updating the topology for the year one of STAR.

11. Update to the RA Modeling Improvement Strategic Plan – Y. Huang

- Y. Huang – presented the background of 5-year Strategic Plan.
- M. Mager – Modeling maintenance should be included or mentioned in some kind of sensitivity case.
- Y. Huang – Agreed and we start thinking about the maintenance that applicable under the winter modeling.
- Y. Huang - If ICS accepts the recommendations, it will be presented to the EC for approval.

Next Meeting

Meeting #281 – Wednesday, October 4, 2023, 10 am – KCC