

Draft Minutes

**New York State Reliability Council - Installed Capacity Subcommittee (ICS)
Meeting #248 – June 29, 2021
Telephone Conference**

Attendees

Present Phone

Members / Alternates:

Brian Shanahan (National Grid ICS Chair	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rick Brophy (NYSEG/RG&E) ICS Vice Chair / Secretary	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rich Bolbrock (Unaffiliated)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Clay Burns (National Grid).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sanderson Chery (Con Edison).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
John Cordi (NYPA)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
John Dellatto (PSEG LI).....	<input type="checkbox"/>	<input type="checkbox"/>
Howard Kosel (Con Edison).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mike Mager (MI)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alan Michaels (NYPA).....	<input type="checkbox"/>	<input type="checkbox"/>
Chris Wentlent (MEUA).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mariann Wilczek (PSEG LI)	<input type="checkbox"/>	<input type="checkbox"/>
Rich Wright (CHG&E)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mark Younger (Hudson Economics)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Khatune Zannat (PSEG LI)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Advisers/Non-member Participants:

Alan Ackerman (CES).....	<input type="checkbox"/>	<input type="checkbox"/>
John Adams (ICS Consultant)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
David Allen (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Leen Almadani (Unknown).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Charles Alonge (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Liam Baker (Eastern Generation)	<input type="checkbox"/>	<input type="checkbox"/>
Samantha Bergami (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Josh Boles (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mitch Bringolf (GE Consulting).....	<input type="checkbox"/>	<input type="checkbox"/>
Craig Bury (Unknown).....	<input type="checkbox"/>	<input type="checkbox"/>

Patti Caletka (NYSEG/RG&E)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Andrea Calo (CES)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ryan Carlson (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Jie Chen (Potomac)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Frank Ciani (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Matt Cinadr (E Cubed)	<input type="checkbox"/>	<input type="checkbox"/>
Maeve Conway (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Jim D'Andrea (LS Power)	<input type="checkbox"/>	<input type="checkbox"/>
Michelle D'Angelo (Unknown)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Jack DiOdoardo (CHG&E)	<input type="checkbox"/>	<input type="checkbox"/>
Greg Drake (ICS Consultant)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Nelson Eng (Con Edison)	<input type="checkbox"/>	<input type="checkbox"/>
Adam Evans (DPS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Jonathan Forward (DPS)	<input type="checkbox"/>	<input type="checkbox"/>
Kenneth Galarneau (Ravenswood)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ricardo Galarza (PSM Consulting)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Robert German (DTE)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Nate Gilbraith (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chris Gloria (Con Edison)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ying Guo (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chris Hall (NYSERDA)	<input type="checkbox"/>	<input type="checkbox"/>
Katie Hannigan (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Karl Hofer (Con Edison)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Erin Hogan (UIU)	<input type="checkbox"/>	<input type="checkbox"/>
Yvonne Huang (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Zachary Hutchins (Unknown)	<input type="checkbox"/>	<input type="checkbox"/>
Eduardo Ibanez (GE Consulting)	<input type="checkbox"/>	<input type="checkbox"/>
Dan Jerke (CPV)	<input type="checkbox"/>	<input type="checkbox"/>
Jim Kane (NYPA)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Riaz Khan (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Brian Krall (East Coast Power & Gas)	<input type="checkbox"/>	<input type="checkbox"/>
Chris LaRoe (Brookfield)	<input type="checkbox"/>	<input type="checkbox"/>

Scott Leuthauser (HQUS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tim Lundin (LS Power)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Norman Mah (Con Ed Energy)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dan Mahoney (NYPA)	<input type="checkbox"/>	<input type="checkbox"/>
Aaron Markham (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Randy Monica Jr. (Unknown).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Philip Moy (Unknown)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Amanda Moyott (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Scott Nevins (DPS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Jonathon Newton (Direct Energy)	<input type="checkbox"/>	<input type="checkbox"/>
Ben O'Rourke (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Kevin Osse (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Carl Patka (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ryan Patterson (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Matthieu Plante (HQUS)	<input type="checkbox"/>	<input type="checkbox"/>
Laura Popa (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Julia Popova (NRG).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Zahid Qayyum (Con Edison)	<input type="checkbox"/>	<input type="checkbox"/>
Richard Quimby (DPS).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sadhana Shrestha (Unknown)	<input type="checkbox"/>	<input type="checkbox"/>
Zack Smith (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Max Schuler (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Matthew Schwall (IPPNY)	<input type="checkbox"/>	<input type="checkbox"/>
Mike Welch (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Brian Wilkie (National Grid)	<input type="checkbox"/>	<input type="checkbox"/>
David Withrow (CES)	<input type="checkbox"/>	<input type="checkbox"/>

- 1. Roll Call – R. Brophy**
 - Roll call was conducted.
- 2. Introduction and Request for Additional Agenda Items - B. Shanahan**
 - Chair Brian Shanahan called the NYSRC ICS meeting to order at 10:00 A.M. on June 29, 2021.
 - No additional agenda items were identified.
- 3. Approval of Minutes for Meeting #247 – B. Shanahan**
 - Greg Drake noted that there were several instances where actions were being requested. Greg will collate them and send a list of the items he has identified to Brian to see whether they should become action items. Brian agreed that we should create action items if there is any follow-up needed and should also note if any have been completed.
 - Discussion re meeting minutes for #6 – PBC assumptions, specifically concerning updates to the LIPA topology. Nate Gilbraith said that it would be a minor change. Mark Younger said that since the topology is normally locked-down by now we do need some sort of action item to track how it gets resolved.
 - Nate suggested that if there is an opportunity to have topology updates in September provided through the TOs after we finish the PBS in mid-August that would be the appropriate time to perform a review and finish the determination as to whether changes should be included, we could then roll them into the topology updates.
 - Mark stated that this is an unusual occurrence which is why he is proposing an action item to track it, it would presumably get closed out in August.
 - Greg said this is one of the items on the list he will send to Brian.
 - The minutes was approved with comments to be incorporated in the final version.
- 4. Review of Action Items List – B. Shanahan**
 - 220-1: We will be reporting on in the fall of this year.
 - 243-1: The Whitepaper was approved at June 11th EC meeting.
 - 233-1: Completion date TBD.
 - 242-1, 242-2: Completed at the June 2nd ICS and reviewed at the June 11th EC meeting.
 - 244-1: Completed the Phase 2 Study Scope presentation at the June 2nd ICS meeting. Brian will create an action item for the Phase 2 Results presentation and check with Chuck Alonge about an expected completion date.
 - 245-1: Completed.
 - 246-1: Completed
 - 247-1: NYISO will take a look at their inclusion/exclusion criteria. There was feedback from the EC which needs to be incorporated into the final plan.
 - 247-2: Initial timing and structure of this discussed at the last EC and RRS.
 - 247-3: Greg Drake having discussions with NYISO staff.
 - 247-4: One of the 247-2 goals, concerns posting of document. Agenda item #10.
 - Current whitepaper topics: Two documents with the “TBD” statuses, third anticipated to be done by January next year.
 - Future whitepaper topics: Additional topic suggestions should be sent to Brian.

5. Status update to milestone tasks for the 2022 study – N. Gilbraith

- We're on-track. For today we have to approve the PBC assumptions matrix and have a large set of parametric results to present. Anticipate wrapping up the parametric study and the TAN45 at the August 4th meeting.

6. Updates to the 2022 Preliminary Case Assumptions

6.1. PBC Assumptions Matrix for Approval – K. Osse

- ICS reviewed the PBC Assumptions Matrix.
- Mark Younger noted that there are two units which will lose their CRIS rights if they do not participate in the ICAP auction. If they do participate, we should revise our treatment of those units. NYISO agreed to an action item to track those two units and modify the FBC if necessary.
- Attachment C "NYCA Five Year Derating Factors" is lacking data at this point. NYISO indicated the data would be there for the next meeting. NYISO said that the SCR registrations are received the first week of July and the other EOP's will be coming out in July as well (Voltage Reduction and Public Appeals) so they will also be updating Attachment D "Emergency Operating Procedures."
- ICS approved the PBC Assumptions Matrix with the understanding there would be updates including generator registrations, and Attachments C and D.

7. Preliminary Base Case – Initial Parametric Results – K. Osse

- NYISO does not have all the cases completed; working on the external model, waiting for the SCR and EOP data to come in. The NYISO has also not completed cable outage rates yet, they are finalizing the data for two of the cables, have run the others. Plan to report on all of these at the next meeting.
- Details presented re some of the completed runs:
 - #1: GE has made a lot of changes to the MARS functionality re ELR modeling which required changes to the database and calculations.
 - #2: Changes to the Summer LFU modeling resulted in a significant impact, which was expected. The only change incorporated this year was for the mid-point adjustments.
 - #3: The primary driver for thermal outage rates impact was the zone J outage rates. While the NYCA system outage rate didn't change that much, zone J improved by about 10%.
 - #6: 2021 DMNC values have improved from 2020. As you change the zonal DMNC values it impacts the zonal UCAP rating even though we're keeping the same outage rates of the units from last year to this year. It does change allocation and the distribution of the MWs you're adjusting or shifting. In addition, the zonal increases in NYC and LI result in a NYCA wide decrease.
 - #9: This includes all capacity additions: two new wind units, the uprate for Sithe Independence, King's Plaza, etc. The result is a mixture of A-F and G-K runs.
 - #10: The Western NY Public Policy project is included, the Ontario – NY PAR is deemed out-of-service for this IRM study.
 - #11: The load forecast went down. The load shapes are scaled by the NPC/CP ratio. The primary driver was a change in allocation of those shapes such that there were less hours of need because of the differences of those ratios from last year. That improved the system, decreasing the reserve margin. It was noted that the Zone K

margin went up even though the forecasted load went down – NYISO will take this back and take a closer look at that number.

8. White Paper Progress Updates – B. Shanahan

- Much of this was covered during review of the Action Items.
- Brian will be working to firm-up the date for LFU Phase 2 study results; thinking January of next year at this point with a preliminary presentation prior to that.
- The EC approved the ELR and the High Renewables Phase II Whitepapers. They will be posted on the NYSRC ICS website.

9. Draft Sensitivity list Update – G. Drake

- Greg cleaned up the list based on feedback for our last meeting, but other than that there are no updates. Greg's looking for additional feedback if folks have any.
- There are a couple of new ones added, #s 10 and 11, that look out to future years.
- Mark Younger commented that we did look Indian Point for a number of years potentially going out. He said there is a concern that this process is a black box and the only way to get a forward understanding of what's going on is if the ISO/SRC does some of these forward evaluations for significant changes.
- Discussion on #10 initially centered around whether we can just change-out the current topology and replace it with the 2024 topology and calculate an IRM that provides information of value to stakeholders.
 - It was suggested that the proposal be brought to the EC for review and comment.
 - There were arguments both pro and con, some thought it would have value for stakeholders – as have other sensitivities, others thought it would be speculative and the results could be misused and lead to misguided questions should future study results vary from the sensitivity.
 - Rich Bolbrock broadened the conversation with the thought that there would be value in doing an IRM forecast from a reliability perspective. He stated that any glimpse into the future is a valuable thing to do as long as it is characterized correctly and the value of it is explained properly.
 - Nate Gilbraith responded by saying that the NYISO takes reliability extremely seriously and their planning processes ensure reliability over the long-run. They don't calculate an IRM but is very robust and comprehensive planning process to ensure reliability in future years – the RNA looks out 10 years and they look out further for some of the other studies. The NYISO evaluates system reliability under changing conditions and changes in grid trajectory.
 - It was suggested that we agree to not discard the potential task of doing it but additional discussion between the NYISO and the Reliability Council is in order, a decision would be made in the future.
 - The discussion closed with Brian taking the task of summarizing this discussion in his ICS report and bringing it to the EC for additional discussion and possible direction at some point in the future.
- Future whitepaper #11 is also about a subject that will probably show a significant impact on the IRM and the LCRs. As with #10, Mark claimed it would provide information stakeholders would find useful as it appears that LCRs will be going down for various reasons. This change is likely to provide some upward pressure in the future, especially two years out. Brian said he would also bring this to the EC for discussion next week at their meeting.

- Howard Kosel commented that people should keep in mind that we need to be careful in how the impacts of sensitivities are viewed. As an example, the Con Ed PAR series reactors would not be a change made by itself. That is a change due to changes in available resources – generation potentially on the system in 2023. Studying just an individual change alone doesn't give the full picture, the resulting impact(s) can be misleading.
- ICS will be voting on the list of sensitivities for this year's IRM study at our next meeting.

10. NYSRC Goals 5-14-21 Draft Comment Review – B. Shanahan

- The EC is going to look ahead to start setting the NYSRC goals for 2022. We are unsure what they want us to do regarding 2021 goals since we are already halfway through the year. The RRS was going to start developing goals for 2022. The one exception for 2021 goals was to revise the ICS scope document, there are some outdated terms and references in it. There was one item the EC wanted to add to the agenda items was for the ICS to look at industry events.
- Brian continues to collaborate with Roger Clayton over at RRS to develop 2022 goals and to firm up what we are doing for 2021 in terms of documenting our performance concerning the goals.

11. Additional Agenda Items

- None

Next Meeting

Meeting #249 – Wednesday August 4, 2021, 10 am – Telephone Conference/WebEx