

Draft Minutes

**New York State Reliability Council - Installed Capacity Subcommittee (ICS)
Meeting #281 – October 4, 2023
Microsoft Teams**

Attendees **Present** **Phone**

Members / Alternates:

Brian Shanahan (National Grid) ICS Chair	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Noor Leghari (NYSEG/RG&E)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Majdi Baccouche (NYSEG/RG&E).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rich Bolbrock (Unaffiliated)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Clay Burns (National Grid)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ruby Chan (CHG&E)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sanderson Chery (Con Edison)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ayman Elkasrawy (NYSEG/RG&E)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Jim Kane (NYPA)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Howard Kosel (Con Edison)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mike Mager (MI)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chris Wentlent (MEUA).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Richard Wright (CHG&E)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mark Younger (Hudson Economics)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Athar Hilme (PSEG LI).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Advisers/Non-member Participants:

Kristine Agati (AVANGRID)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
John Adams (ICS Consultant).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dave Allen (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Leen Almadani (CHG&E).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Josh Boles (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mike Cadwalader	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Andrea Calo (CES)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ryan Carlson (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lucas Carr (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Anand Chandrashekar (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Jie Chen (Potomac)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Benjamin Cohen (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Patrick Danner (NYPA)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Grant Flagler (Con Ed Energy)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Henry Fox (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kenneth Galarneau	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ricardo Galarza.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
William Gunther (Con Edison)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chris Hall (NYSERDA).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Karl Hofer (Con Edison)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Erin Hogan (DOS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Yvonne Huang (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gary Jordon (ICS Consultant).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Scott Leuthauser (HQUS).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Brendan Long	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Syeda Lubna	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mikaela Lucas (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tim Lundin (LS Power)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Madeline Mohrman (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Randy Monica Jr. (DPS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tubbs Nikolai (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kathleen O'Hare (NYISO).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Otito Onwuzurike (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pallas LeeVanSchaick (Potomac).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Abdul Mohammed (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Laura Popa (NYISO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Julia Popova (NRG).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Thomas Primrose (PSEG LI)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bianca Prinsloo (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1. Roll Call – N. Leghari

- Roll call was conducted.

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

- No additional agenda items.

3. Approval of Minutes for Meeting

3.1. Meeting #280 – B. Shanahan/N. Leghari

- Minutes Approved upon edits.

4. Review of Action Items List – B. Shanahan

Action Items

- 279-1 will be represented today.
- 220-1 and 257-1 still in place.

White papers

- *EOP Review*: Preliminary results to be represented today.
- *Source adequacy strategic plan*: EC accepted the plan presented.

5. ICS 2024 Goals – B. Shanahan

- Discussion on the different goals.
- Choice of report, white paper, and mini white paper.
- No specific months are specified for the different goals.
- Item A2.2 to be moved from Goals to Action Items list.
- Goals List is finalized.

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

6.1 Adoption of Sensitivity 6a into FBC Approved

- EC approved and adopted the sensitivity case 6a.
- NYISO will send the regression to the TOs.

7. NYISO and TOs confirm preliminary data base quality assurance review – Y. Huang

7.1 ICS accepts preliminary data base quality assurance review.

- Completed last month.
- Regression needs to be confirmed by TOs.

8. Updated Summer Maintenance Analysis –J. Adams

- Analysis redone with cause code 9300 events removed.
- 340 events are the events that remained after 158 events with cause code 9300 were removed.
- For daily peak loads equal to or greater than 30,000 MWs, the daily MWs unavailable due to maintenance averaged 49.4 MWs.
- Recommendation to maintain the current assumption of 50 MWs split between zones J&K, since 78% of the total reviewed events occurred in Zones J&K.

9. Final Base Case Assumptions Matrix for ICS Approval – B. Prinsloo

❖ Items Updated.

- Item #8: Deactivations and Removal
- Item #11: Summer Maintenance: Nominal 50 MWs – divided equally between Zones J and K.
- Item #17: BTM- NG Program: add new unit an updated total.
- Item #29: Interface limits.
- Item #35: EOP Structure: updated the order of EOP status.
- Item #40: Emergency Assistance: update to the EOP white paper.
- Item #41: MARS Model version.

- Item #42: Environmental initiatives.
- Yvonne suggested going first through all the base case presentations before approving it.

9.1 Fall Load Forecast – For ICS Approval – C. Alonge / M. Schuler

- Summary: Actual ICAP Market 2023 coincident peak hour load (7/28/23 hour beginning 17)
- 2023 Normalized Peak: Total load on July 28th, 2023 is 31,397 MW.

9.2 Topology Update – Y. Huang

- 2024-2025 IRM PBC reflected the assumption with improved transfer limits due to AC Tx project fully in service.
- Transco reported that the development work at Dover PAR was halted due to local permit being challenged by State Supreme Court.
- Delay of the Dover PAR construction will impact several interface transfer limits as well as the amount of series compensation.
- Impacts on Central East: An expected effect on the Central East voltage limit due to the bypassing of the PAR and series compensation at Knickerbocker. A small reduction from the current IRM assumptions.
- Impacts on UPNYSENY: Bypassing of the Dover PAR and series compensation at Knickerbocker will also impact the UPNYSENY transfer limit. Given the lack of completed detailed study and the expectation of no impact on the IRM study, the NYISO propose to make no change to the UPNYSENY transfer limit.
- Discussion on whether to use last year’s 1900 MW limit in the absence of completed detailed study or use other numbers.
- Discussion on NYISO’s inability to consider the change caused by Dover PAR delay and the expected date to get the study.
- **Action Item#281-1:** Ensure that final base case report and assumptions matrix have a footnote to explain that there is no change in topology to account for Dover PAR implementation delay, but there is an expected minimal impact of the delay on final IRM results.
- **Action Item#281-2:** Attempt to figure out if and when an accurate transfer value would be available for possible inclusion this year.

9.3 New Generator Screening – A. Mohammed

- Methodology
- New Generators for FBC: NYISO recommends maintaining the new generators included in the PBC and modeling the following 5 projects in the 2024 – 2025 IRM FBC
- Kings Plaza Energy LLC – Update: NYISO recommends removing it in the 2024 -2025 IRM FBC
- Next Steps: 2024-2025 IRM Final Base Case will be updated consistent with ICS’s determination of the new generators

9.4 Updates to the Operating Reserve Allocation – L. Carr

- Currently, IRM Study models Operating Reserves as part of the EOP steps.
- Due to the AC Transmission Project, the 10-minute and 30-minute Operating Reserves will be shifting
- NYISO recommends updating the Operating Reserves allocation to the AC Transmission In-Service Zonal Allocation.

- ✓ **Final base case approved by the ICS with one objection.**

10. Initial FBC Parametric Results – B. Prinsloo

- Starting case is PBC sensitivity case 6a with IRM 2023.
- Going through different adjustments and their impacts.
- Runs expected for next ICS meeting: Topology, New Load Forecasts, and Production Shapes.
- Going through Non-Material changes. Only “EFORd Update” and “EOP Operating Reserve Updated Allocation”.

11. EOP Whitepaper Final Report – M. Lucas / H. Fox

- Going through quick page by page review.
- No comments on the report.

12. Gas Constraint Whitepaper Update– L. Carr

- After reviewing the GADS data and operational reports, the NYISO concluded that currently there is no issue of double counting the gas constraints in the GADS database.
- The NYISO recommended proceeding with the modeling effort to reflect gas constraints via the form of generator unavailability.
- In the current RA model, there is very little winter risk due to lack of accounting for winter conditions in the base case model.
- NYCA is forecasted to become winter peaking by the mid-2030’s and winter RA risk is expected to emerge long before that.
- The results of the Winter Constraints sensitivities showed that removing 7,000 MWs of capacity during the winter months, as in cases 7a-2 and 7b-2, will impact the IRM when combined with limiting EA
- MMU Gas Availability Study: As demand approaches 100% of design day demand, the amount of gas available for New York generators decreases. Above 85% design day demand, there will be no gas available for NY generators.
- Takeaways: The 7,000 MW capacity reduction modeled in the sensitivity cases represents a conservative scenario that could potentially align with Bin 1 or worse winter conditions. As the winter risk continues to grow and the market rules continue to evolve, the actual gas constraint assumptions will have to be revisited and additional research will be needed.
- Next Steps: NYISO will take the ICS feedback from this meeting to better develop gas constraint magnitude levels and load level triggers. NYISO will return at the November 1, 2023 ICS meeting with continued research and preliminary testing results of the preferred modeling concept for feedback.

13. Proposed Change to SCR Modeling – M. Mohrman

- Background: Last year, the NYISO filed, and FERC approved, the NYISO’s marginal capacity accreditation market design which assigned marginal Capacity Accreditation Factors (CAFs) to ICAP suppliers. Modeling of those ICAP Suppliers in the IRM/LCR model must align with the expected performance and obligations that those ICAP Suppliers have in the NYISO’s market.
- Modeling Improvements for Capacity Accreditation project has developed a new proposed modeling of SCRs for use in the IRM, LCR, and capacity accreditation studies.
- Comparison between Current IRM Modeling vs Historical SCR Performance.

- Proposed SCR Modeling: SCRs as zonal duration limited resources with hourly response rates, are subject to a 1 call per day limit. SCRs would continue to be deployed as the first EOP step but would not be subject to an annual or monthly limit on the maximum number of activations. The maximum modeled capacities of the zonal SCRs would be calculated similarly based on zonal SCR enrollments from the prior year and the zonal ACL to CBL factors. The duration limits would be based on the maximum mandatory event length that has occurred in the zone over the most recent five years in which a mandatory event was initiated in the zone (but not older than summer 2012).
- Next Steps: Next meeting, NYISO will discuss the impact of the proposed SCR modeling on the IRM as well as considerations and appropriate action items for potential adoption of this modeling change.

14. Additional Agenda Items

- No additional agenda items.

Next Meeting

Meeting #282 – Wednesday, November 1st, 2023, 10 am – NYISO KCC