

# NYSRC Installed Capacity Subcommittee

Meeting #172

June 3rd, 2015

10:00 a.m. – 2:00 p.m.

Meeting Minutes

## Attendees

	Present	Tel
Members / Alternates:		
Ms. Khatune Zannat (PSEG-LI) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Rich Wright (CHG&E) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Gregory Chu (Con Edison), <b>ICS Vice Chair/Secretary</b> .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Sanderson Chery (Con Edison) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Richard Brophy (NYSEG-RGE) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Syed Ahmed (National Grid) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Mark Younger (Hudson Energy Economics, LLC.) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Bob Boyle (NYPA) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Advisers/Non-member Participants:		
Ms. Erin Hogan (DOS), <b>ICS Chair</b> .....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Greg Drake (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Carl Patka (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dr. Kai Jiang (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Bill Lamanna (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ms. Danielle Gavel (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Al Adamson (Consultant) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. John Adams (Consultant) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Scott Leuthauser (Consultant for H.Q. Services) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ms. Kelly Joseph (NRG) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Timothy Lundin (Customized Energy Solutions) .....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. James Scheiderich (ECS) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Guests Present:

## 1. Outside World EOPs/PJM Model

John Adams (NYSRC – Consultant) provided a quick background review on the topic. He mentioned last year the group noticed a high LOLE for PJM region and debated about outside world EOP inclusion. A working group was formed to look at this issue. The group found only a portion of the PJM area was modeled and that may be the reason for the high LOLE. The group recommended in the investigative report that we should continue to NOT model external EOPs. However, the group found that we did indeed model the entire PJM region unlike previously stated.

Moreover, Mr. Adams said that without demand resources, PJM does not have sufficient reserve to meet the 15.6% requirement. He said that total capacity in PJM without demand resources is 14.4%. Greg Drake (NYISO) is looking at the full RTO issue for the model and Mr. Adams will revise the report, taken into consideration that full PJM RTO is already being modeled.

Mark Younger (Hudson Energy Economics) recapped that the reason for high LOLE is not only due to a lack of capacity, but also that we model transmission constraints whereas PJM do not, and thus we would see a much higher PJM LOLE in our IRM model last year. Mr. Adams reminded the group that PJM does not include demand resources or EOPs in their reserve margin determination. Bill Lamanna (NYISO) asked if the demand resources are not included in the PRISM model or is it not included in the reserve margin % calculation. Mr. Adams said that PJM does not include them in the model.

Al Adamson (NYSRC – Consultant) stated that in the NPCC CP-8 model, they've created a new bubble that was previously within a preexisting bubble (PJM Southwest). He also said that the forecast for demand resources this year has dropped significantly from 5600 MW to less than 2000 MW (annual and extended program).

Chair Erin Hogan asked if ICS members agreed with the working group's finding that we do not include outside world EOPs in our study. **ICS agreed.**

Chair Hogan then mentioned that the group will now need to determine if we are to use the new topology configuration from CP-8 that consists of 5 bubbles or default back to the old 4 bubble topology. Mr. Drake showed on webex that the new bubble, labeled DOM-VEPC, was added this year to PJM region that currently consists of PJM-West, PJM-Central, PJM-East, and PJM-Southwest. Mr. Drake said that DOM-VEPC consists of capacity and load from within PJM-Southwest, based on initial investigation. Thus the new region does not consist of new generation and load, but rather a break-out from PJM-Southwest region. The NYISO elected to change the model to mimic CP-8, which they've always done in the past, instead of trying to break out each unit and try to account for them from within PJM-Southwest and place them into DOM-VEPC. When the NYISO modeled the CP-8 configuration, which included new transfer limits from DOM-VEPC to PJM-Central and to PJM-Southwest, both PJM and NYCA LOLE dropped dramatically. Mr. Drake noticed that 1500 MW transfer capability was added with the new bubble to PJM-Central and the NYISO was unable to account for the increase transfer capability.

Chair Hogan has asked the working group to provide recommendation on the topology configuration to use in this year's study at the July meeting based on some additional MARS analysis to determine if the effect of lower LOLE is due to the new transfer capability. **(AI 172-1)**

Former Chair Bob Boyle (NYPA) suggested that one quick way to identify if transmission is the driver of lower LOLE, and since Dominion units were in PJM-Southwest in last year's model, is to simply increase the transfer limits from PJM-Southwest to PJM-Central by 1500 MW.

Mr. Drake said that the NYISO is not completely comfortable with the 5 bubble representation, but they will nevertheless perform some MARS runs with that configuration and present the results to the group for their consideration.

Vice Chair Gregory Chu (Con Edison) pointed out that to save the NYISO even more time, they can just go back to the 5 bubble configuration MARS run (which they said they completed already) and see if there are significant amount of flows over the new interface between DOM-VPEC and PJM-Central. If there are, that's a good indication that the approximately 12,000 MW of capacity in DOM-VEPC is assisting the other PJM regions (and NY) and that would have driven the LOLE lower.

Khatune Zannat (PSEG-LI) asked if the NYISO knew where the 1500 MW new transfer capability came from. Mr. Lamanna stated that they have not reviewed the entire PJM transmission data yet for that determination, but they will be doing that as they have done in the past in June timeframe.

Jim Scheiderich (ECS) suggested that the NYISO reach out to CP-8 regarding the reason behind the new transfer capability since that could be the fastest solution to determine its impact on our modeling.

Mr. Drake presented the PJM and NYCA LOLE in the afternoon and showed that NYCA LOLE went from 0.1 to 0.043 when PJM RTO was updated to 5 bubbles (with demand resources from last year included). PJM itself went from 0.288 to 0.051 LOLE. Syed Ahmed (National Grid) mentioned that the bottom section of the table shown on the webex which are NYCA, J, and K margins were not correct and misleading. Mr. Drake agreed and removed the margins section. Chair Hogan commented that the results shown here is significant.

## **2. IRM Topology**

Mr. Lamanna said that the draft topology will be modified with TPAS discussion and ICS discussion thus far. The new topology will be posted. He stated that TOTS projects are incorporated in this topology. He also said that the topology was reviewed against 3 other recently completed NYISO studies (Comprehensive Reliability Plan, Summer Operating Study, and Area Transmission review). Changes are expected on Central East/Fraser-Gilboa, CE

group, UPNY-SENY, Marcy South, and J to J3. Dysinger East and Zone A group also had some changes.

Mr. Lamanna will return in July with an updated topology, including the nomogram table for zone A. **(AI 172-2)**

### **3. Load Shape and Load Forecast Uncertainty**

Arthur Maniaci (NYISO) said that due to a cool weather, we did not reach system peak until September last year. There was no useful summer data from 2014, thus the NYISO is recommending the use of last year's load shapes (2002, 2006, 2007). PSEG-LI will review their data for the LFU and provide changes if necessary, but it is likely that the same LFU shapes from last year would be used this year again.

Chair Hogan asked if we would review the shapes again next year to see if there are additional load shapes that may be more appropriate. Mr. Maniaci said that we would do that next year and consider 2006, 2011 and 2013 shapes.

Chair Hogan said there was a large drop in energy in 2014 based on a previous presentation by Mr. Maniaci in ESPWG. Mr. Maniaci said that there was a large load that disappeared, in a single zone. Chair Hogan wasn't certain and is hoping the NYISO would look at this reported large energy drop. Mr. Maniaci would like to come back at the next meeting to revisit the load shape selection methodology. **(AI 172-3)**

LFU will be finalized at the July ICS meeting. **(AI 172-4)**

### **4. 2016 Assumption Matrix**

Mr. Drake mentioned that possibly all 4 Dunkirk units may need to be in the model. Chair Hogan said that if we removed Dunkirk 2 from last year's case, we need to add them to the matrix as new units appearing in this year's model.

Chair Hogan is asking all the transmission owners to report back any interconnection agreement for new wind and solar units before next year to include in the model.

Mr. Younger said the new capacity zone could and most likely will grant CRIS rights to wind units that weren't granted before due to deliverability issues before. Mr. Drake said he would go back and check to see if these units shown on table B3 wind resources that are non-ICAP participating should be included in the model. **(AI 172-5)**

Chair Hogan would like to add a note to indicate that these non-ICAP participating wind units are existing units.

Scott Leuthauser (HQUS) mentioned that import from HQ would increase to 1110 MW from 1090 MW.

Mr. Younger and Mr. Drake will look at external capacity sales that may no longer come back to NY due to New England retirements that would use those capacities.

Mr. Drake said that the exact amount of SCR to model will be known by the 3<sup>rd</sup> week of June, when enrollment amount is available. Mr. Boyle did not support the SCR derate on the Effective Capacity Value (ECV) presented by the NYISO at the previous meeting. Vice Chair Chu and Mr. Scheiderich recalled that the NYISO in the slides that the derate is due to inclusion of years that didn't have any four-hour event calls, but no other details were given. Chair Hogan would like the NYISO to provide the data and calculation for the ECV when the NYISO return with SCR enrollment amount in July meeting. **(AI 172-6)**

Chair Hogan asked Peter Carney (NYISO) to present environmental impacts on the IRM model at the next ICS meeting. Chair Hogan also asked if Mr. Carney can provide meeting materials ahead of the meeting for review. **(AI 172-7)**

## 5. Policy 5 Update

Chair Hogan said that at the July meeting, the group will vote and approve the language changes to ensure Policy 5 inclusion.

Mr. Drake provided a presentation that outlined a revised way to make IRM adjustments described in Appendix D of Policy 5. When the Executive Committee voted a lower IRM than the tangent 45 point, the model needed to be adjusted back to 0.1 LOLE. In the past, EDRP were used but the program is getting smaller and some zones do not have any EDRP MWs. The NYISO is proposing the addition of a new EOP step for adjustment. The step will be adjusted based on each zone's peak load. After some discussion about the language, changes were made and accepted by ICS members.

Mr. Adams spoke about the outside world update language in Policy 5. As a recommendation from the Outside World Study Report, section 3.5.6 of Policy 5 should be updated. Mr. Adams suggested the elimination of "its isolated LOLE cannot be lower than that of the NYCA" as that has no meaning in the model results. The changes are in draft form and additional changes may be necessary, depending on the discovery of the PJM study. Any additional edits can be submitted to Mr. Adams within 2 weeks. **(AI 172-8)**

## 6. Large Hydro Derate

Mr. Leuthauser asked why Lewiston was included but Gilboa was not included. Mr. Drake said that Gilboa gets updated every year already through GADS.

Mr. Younger recommended the elimination of figure 1 due to a lack of numbers, and an addition to the existing language with "resulted with x% EFOR decrease in one unit and y% in another..." just before "and a 0.3% drop in the IRM..." Mr. Boyle would take that back and consider that recommendation but did not agree on the inclusion of "significant impact" in the language. He would like to avoid any detail that may identify specific units.

## **7. IRM vs. LOLE Relationship**

Mr. Adamson suggested that the chart be included in the report. Mr. Drake thinks it would be best to show this to the EC directly. Vice Chair Chu stated that it would be important to point out that the relationship is for last year's model. It may confuse readers if we are to include this in this year's IRM report.

## **8. ELR/CLR Investigation**

Mr. Drake reported that due to confidentiality concerns, the NYISO are unable to share the data requested on CLR.

Mr. Younger asked if they can provide information on the super zone basis. Mr. Drake said that one can still reverse engineer to identify units. Mr. Younger then asked if the NYISO can provide the information on a NYCA wide basis. Carl Patka (NYISO) wondered if they can provide the way ELR and CLR are modeled instead of providing sensitive data. Mr. Younger believed that the amount of limited resources is perhaps more important than methodology, since we should be expecting the NYISO to be modeling them correctly already. Mr. Younger thinks that if the amount is very small then this is a non-issue.

Mr. Boyle clarified that the 4 hour limitation is not always imposed within that strict time window as the hours can be non-consecutive, spread out over the 24 hour of a day.

## **9. Overhead Transmission Outage- Transition Matrix**

Dr. Kai Jiang (NYISO) said that the matrix is being formed and will be ready by the July meeting. Chair Hogan said that even if we need to push it to August it will be ok.

## **10. Technical Conference on Export Limited Zone**

Chair Hogan asked if the group was aware of the FERC proceeding on this particular topic. She was recommended to contact Gloria Cabinov from legal who is more familiar for the current status of this topic.

## **11. NYSRC Code of Conduct Certification**

ICS members were asked to sign the Code of Conduct and provide them back to Chair Hogan.

Secretary: Gregory Chu

*(Con Edison)*

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Next meetings:

Meeting 173, Wednesday, July 1<sup>st</sup> at NYISO HQ

Meeting 174, Wednesday, August 5<sup>th</sup> at NYISO HQ

Meeting 175, Wednesday, September 2<sup>nd</sup> at NYISO HQ

Meeting 176, Tuesday, September 29<sup>th</sup> at NYISO HQ

Meeting 177, Tuesday, October 27<sup>th</sup> at NYISO HQ

Meeting 178, Monday, November 30<sup>th</sup> at NYISO HQ

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