

NYSRC Installed Capacity Subcommittee

Meeting #152

October 2nd, 2013

10:00 a.m. – 3:00 p.m.

Meeting Minutes

Attendees

	Present	Tel
Members / Alternates:		
Mr. Curt Dahl (LIPA), EC Vice Chairman	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Yuri Fishman (LIPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ms. Kathune Zannat (LIPA)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Rich Wright (CHG&E)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Luting Pan (Con Edison)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Gregory Chu (Con Edison), Secretary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Kelvin Chu (Con Edison)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Syed Ahmed (National Grid)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Bart Franey (National Grid)	<input type="checkbox"/>	<input type="checkbox"/>
Mrs. Patricia Caletka (NYSEG-RGE)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Edward Gilroy (NYSEG-RGE)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. John Tigie (NYSEG-RGE)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Richard Brophy (NYSEG-RGE)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Robert Boyle (NYPA), ICS Chairman	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Andrea Fossa (NYPA)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Bradley Kranz (NRG Energy, Inc.)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Chris LaRoe (IPPNY)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Mark Younger (Hudson Energy Economics, LLC.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Mark Cordeiro (Municipal Power Agency)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Michael Mager (Couch White, LLP)	<input type="checkbox"/>	<input type="checkbox"/>
Advisers/Non-member Participants:		
Mr. John Adams (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Peter Carney (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>

Mr. Frank Ciani (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Dave Lawrence (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Greg Drake (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Bill Lamanna (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Ms. Mariann Wilczek (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Steve Lemme (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Ms. Erin Hogan (NYSERDA), ICS Vice Chair	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Ed Schrom (NYPSC)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Nicholas Occhionero (NYPSC)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Al Adamson (Consultant).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Frank Vitale (Consultant)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Arthur Maniaci (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Scott Leuthauser (Consultant for H.Q. Services)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Henry Chao (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Howard Tarler (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Wes Yeomans (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Paul Gioia (NYSRC)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Dana Walters (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Ms. Donna Pratt (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. David Allen (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Dr. Kai Jiang (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Mark Walling (GE)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Gary Jordan (GE)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Glenn Haake (NYPA).....	<input type="checkbox"/>	<input type="checkbox"/>

Guests Present:

Mr. Charlie Shafer (AES)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Dean Ellis (Dynergy).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Jim D'andrea (Transcanada)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Alan Ackerman (Customized Energy Solutions).....	<input type="checkbox"/>	<input type="checkbox"/>
Dr. Roy Shanker	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Phil Fedora (NPCC).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Arvind Jaggi (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Frank Francis (Brookfield).....	<input type="checkbox"/>	<input type="checkbox"/>

Mr. Tom Patrit (EPS)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Ruben Brown (The E Cubed Co.)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. John Dalwin.....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Richard Quimby.....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Randy Wyett (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. John Dowling (Luthin Associates).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Timothy G. Lundin (Customized Energy Solutions).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Norman Mah (Con Edison)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Matt Renninger (Energy Curtailment Specialist)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Jim Scheiderich (Energy Curtailment Specialist).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ms. Kathy Slusher (SUNY)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Rick Roby (Dynergy).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Shaun Johnson (NRG)	<input type="checkbox"/>	<input type="checkbox"/>

1. Executive Committee Meeting Update

Chairman Bob Boyle (NYPA) recapped that on the Lower Hudson Valley Locational Capacity Requirement issue, the Executive Committee has decided to include a brief write-up of the NYISO proposed methodology in the IRM report, but the actual % will be excluded from report.

Chairman Boyle also stated that the EC has elected Erin Hogan (NYSERDA) as the new chairperson of ICS starting next year. Ms. Hogan is now appointed as the vice chair to help transition her into the chair position next year.

2. Sensitivity Case Results

Frank Ciani (NYISO) reviewed the sensitivity case results from the preliminary base case runs.

The first sensitivity case, which was NYCA isolated, showed the IRM increased to 26% with J and K at 92% and 114% respectively. Mr. Ciani stated that they've identified an anomaly with hydro maintenance. He said that Moses Niagara, St.

Lawrence, and Lewiston all had scheduled maintenance during shoulder months that took them off line, when in reality, they had stand by units that allowed the plant to performance maintenance without capacity changes. 26% IRM is the result after the maintenance removal.

Mark Younger (Hudson Energy Economics) asked for the number of SCR calls from the NYCA isolated sensitivity case. Mr. Ciani said that the base case had 33 SCR calls. With the correction, the number of SCR calls dropped dramatically. Mr. Younger did not understand why corrections in the shoulder periods would have such a large impact on the number of SCR calls. Dr. Kai Jiang (NYISO) explained that MARS will pick up any LOLE event, whether it is during peak month or not, and compute the annual LOLE number. He further stated that the lack of IRM impact was due to the correction relegated mainly to upstate hydro units, and IRM is more impacted by downstate LOLE. He also said that the number of SCR calls were high in area A and B due to this error. Given that area A and B have insufficient capacity, they typically receive external assistance even during shoulder months. With NYCA isolated, their LOLE became very high with hydro completely out of service. Mr. Younger would like to see the revised base case SCR call number. Dr. Jiang said that after the correction, the base case had 10 SCR calls.

Ms. Hogan asked about the impact of the correction on the base case, Greg Drake (NYISO) said that the changes were insignificant (around .05%) for the base case, but the differences were more obvious in the NYCA isolated case. Ms. Hogan asked if all of the sensitivity cases had this maintenance issue corrected. Mr. Drake said not all of them. He said that only the cases with red numbers shown in the spreadsheet have the maintenance corrected. Mr. Drake also reaffirmed that the correction will be in the final base case.

Mr. Younger recommended a re-run of the base case, plus cases 8-10 should be performed with the maintenance corrected. **(AI 152-1)**

Jim Scheiderich (Energy Curtailment Specialists) asked for clarification on case 10, which limits 5 calls per month per zone. He would like to understand this case

better since the case doesn't seem to reflect actual system behavior. Mr. Drake said that he would forward some materials to Mr. Scheiderich. **(AI 152-2)**

Mr. Ciani said Cayuga 1 and 2 and Dunkirk were retired in case 9-retirement scenario. Al Adamson (NYSRC – consultant) asked for the reason of selecting these specific units to retire. Mr. Ciani said these units have issued mothball notices but they were not allowed to retire due ongoing studies of local reliability need. Scott Leuthauser (HQUS) stated that the transfer limits should be changed if Cayuga units were to shut down, mimicking Wes Yeoman's (NYISO) previous operation report.

For case 10, Chairman Boyle asked about SCR limitation in the base case. Mr. Ciani said there was none. Mr. Adamson asked why there was a significant change last year (3%) versus only 0.74% for this year. Mr. Ciani stated that SCRs had much better performance last year, therefore they had a greater impact on the IRM last year. Mr. Younger asked if the NYISO looked at the data and determined the effects were smaller due to fewer amounts of enrolled SCR or was it due to poorer SCR performance. Dr. Jiang responded that the change to using multiple load shape had significant influence on SCR impact on IRM because with more moderate load shapes, there were less SCR calls per bin level and thus they were less of a factor in this year's IRM.

Syed Ahmed (National Grid) asked if the result for case 6 (higher outside world margins) made sense, when that case lead to more SCR calls, but resulted in a lower IRM. Mr. Drake said that the result from last year was comparable, but was unable to provide the number of SCR calls for this scenario from last year.

3. Fall Peak Load Forecast

Arthur Maniaci (NYISO) reported that they've developed the preliminary load forecast during the month of September. On September 30th, the NYISO received some modest changes to the weather normalized results from Con Edison and LIPA. Due to the short turn-around time, the NYISO did not have the final presentation available by this ICS meeting.

Mr. Maniaci mentioned that public appeal MWs to include in the model should be 8 MW for Area A and 80 MW for Area K. Mr. Younger asked if the 80 MW were verified to be independent of SCR and EDRP, and Mr. Maniaci replied that they are independent.

Mr. Maniaci said that 2013 NYCA weather normalized peak was 33,440 MW prior to the September 30th adjustment by J and K. Mr. Maniaci said that the J's coincident peak load increased by 75MW, where K's coincident peak load decreased by 14 MW.

Gregory Chu (Con Edison) asked which number was adjusted by the 75 MW increase. Mr. Maniaci said that 13,250 MW will become 13,325 MW for the 2013 weather normalized peak load.

Mr. Scheiderich asked if the NYISO has looked at hour beginning 15 and 16 to determine where the peak occurred, since both hours have around 1 MW of difference between them. Mr. Maniaci said that they did not. Mr. Younger said that the NYISO does not have hourly data available yet. Chairman Boyle asked about the effect of this 1 MW on the load forecast. Mr. Maniaci said that this will have no effect on the IRM.

Mr. Maniaci said that zone J anticipates a 1.3% regional load growth while zone K anticipates no growth at all for 2014. Also, he said that NYPA sees a whopping 14% drop in load due to the closure of an industrial plant. Total NYCA load growth is about 0.5% growth. 33,660 MW is the expected final 2014 IRM Preliminary Forecast Peak load. (Note: the final version of this presentation that came out after this meeting showed 33,655 MW as the IRM load forecast for the final base case)

Mr. Maniaci also mentioned that 20 year average data was used this year for determining CTHI, instead of the 30 year in the past due to better statistics.

4. Potential Project to Increase TTC over CRT Intertie

Mr. Leuthauser presented a potential project that HQUS is considering that would increase TTC over CRT Intertie. He stated that the project would increase the capability of Cedar Rapid Transmission line. HQUS is suggesting that the existing level of emergency assistance to be kept in place, while any incremental above that level would be considered CRIS rights, similar to the grandfathered external CRIS rights modeled currently on the Chateauguay line. He explained that currently 1500 MW is allowed to flow on Chateauguay into New York, and then 300 must then exit with first contingency of 1380 MW. 1090MW is a contract modeled in the IRM. The remaining 410 is modeled as available emergency assistance. The proposed transmission upgrade between Dennison and Alcoa (no.12 line) from 400 to 450 MW would have a 50 MW increment which could be used to increase the current limit of 190 to 240MW between South Colton and Dennison as emergency assistance, or could be modeled as grandfather contract external CRIS. Mr. Leuthauser would like to see if ICS members have any comments or questions on this issue of treating that 50 MW incremental as external CRIS, the HQUS preferred method of modeling. He will send around the TPAS presentation to the members for comments. **(AI 152-3)**

5. Assumption Matrix

Mr. Drake went over version 14 of the assumption matrix.

The Peak load will be updated to include the fall peak load forecast.

Ms. Hogan said that she recommend that we should not add any new wind units for the IRM study.

12.5 MW of new solar is confirmed for the IRM final base case.

No new UDRs will be added to the model.

Mr. Ciani said that Trigen Syracuse was in the preliminary model. Since then, local reliability study has been completed and the plant was given the approval for retirement. The unit will be removed from the final base case and it is added to the assumption matrix retirement table attachment B-3.

The NYISO added a small footnote for the reverse limit of PJM/NYCA interface: 1500 MW.

The NYISO also corrected the SCR performance chart to show that there is no growth going into summer 2014.

The redline version and the clean version of the assumption matrix will both be sent to the EC for review and approval.

6. Data Quality Assurance

Chairman Boyle asked about the effects of hand calculating the 6 units' EFORd.

Mr. Drake stated that depending on the method used, the IRM changed to 16.4% if the capacity was restored to all zones (like a sensitivity case). The IRM change, if only the downstate zone capacity was restored, is 16.7%. Dr. Jiang clarified that all 6 units were located downstate.

		IRM	J LCR	K LCR
	Sensitivity style adjustment back to 0.1	16.4	-0.48	-0.63
	Only downstate region adjustment back to 0.1	16.7	-0.63	-0.82

The IRM difference here is due to that downstate zones have higher outage rates, thus more MWs are needed to adjust back to 0.1, as compared to lower outage rates in the upstate regions.

Mr. Chu asked about the software changes/rules that address these 6 units' EFORd issues. Mr. Drake said that Ron Fluegge will be modifying the APA code

to account for these complex events so that future occurrences will no longer warrant time consuming hand calculations.

Mr. Drake said that Con Edison provided about 11 issues from the data scrub. These will be addressed in the IRM report.

7. Transmission Outage Representation Scenario

Mr. Adamson said we have to 1. Come up with a scenario and 2. Determine what to do with the result from the scenario. We need to understand the objective before we embark on a scenario study. We need to create a feasible and valuable scenario that's worth studying.

Chairman Boyle said that the work currently being done by Con Edison and LIPA in creating transition rate matrix can help us understand how to set up the scenario.

Mr. Younger explained that he believe the task is dependent on having the outage rates of some specific interfaces and applying them in the model to see the impact.

Henry Chao (NYISO) said that the difficulty part is to get the actual data to perform the study.

Mr. Chu stated that not only we need the outage data specific to each of the line within the interface being studied, but we also have to consider the transient effects of outages on each of the line since the state of a specific line is dependent on another line(s) plus equipment states. This is unlike generation transition rates, which are largely independent of other generations. MARS is currently not equipped to perform transient study on the transmission system to accurately capture the ever changing system status and limits during its simulation run.

Ms. Hogan commented that perhaps this needs to be an action item and possibly a white paper may be necessary. Mr. Chu recommended that the group should meet first to look at the feasibility, before we put in a place holder in the action item list for white paper, etc.

8. 2014 ICS Meeting Schedule

Due to some conflicts, the previously proposed schedule dates for a couple of meetings had to be rescheduled to a different date.

The group agreed that 10 AM should be the starting time for next year's meetings.

The January 6th conference call will take place in the afternoon.

January 29th meeting has been moved to January 28th.

June 25th meeting has been moved to June 27th.

9. Milestone Schedule

The NYISO is on schedule to complete the sensitivity testing in October, according to Mr. Drake.

There is no recommended special sensitivity case at this time.

Mr. Adamson asked the NYISO to provide the tangent 45 results early on the week of October 21st. The NYISO will release the tangent 45 results to all when ready.

Mr. Adamson said that the NYISO needs to provide a brief write-up on the new capacity zone, transmission, environmental, and load forecast by mid October.
(AI 152-4)

Mr. Adamson said that if all goes well, a preliminary version of the draft report may be available as early as October 24th.

Secretary: Gregory Chu

(Con Edison)

Next meetings:

Meeting 153, Tuesday, October 29th at NYISO HQ
Meeting 154, Monday, December 2nd at NYISO HQ

Meeting 155, Monday, January 6th Teleconference Call
Meeting 156, Tuesday, January 28th at NYISO HQ
Meeting 157, Wednesday, March 5th at NYISO HQ
Meeting 158, Wednesday, April 2nd at NYISO HQ
Meeting 159, Tuesday, April 29th at NYISO HQ
Meeting 160, Wednesday, June 4th at NYISO HQ
Meeting 161, Friday, June 27th at NYISO HQ
Meeting 162, Tuesday, July 29th at NYISO HQ
Meeting 163, Wednesday, September 3rd at NYISO HQ
Meeting 164, Wednesday, October 1st at NYISO HQ
Meeting 165, Tuesday, October 28th at NYISO HQ
Meeting 166, Monday, December 1st at NYISO HQ
