

NYSRC Installed Capacity Subcommittee

Meeting #136

May 29th, 2012

9:30 a.m. – 3:00 p.m.

Meeting Minutes

Attendees

	Present	Tel
Members / Alternates:		
Mr. Curt Dahl (LIPA)	<input type="checkbox"/>	<input type="checkbox"/>
Ms. Polina Adelson (LIPA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Yuri Fishman (LIPA)	<input type="checkbox"/>	<input type="checkbox"/>
Ms. Kathune Zannat (LIPA)	<input type="checkbox"/>	<input type="checkbox"/>
Ms. Erin Plasse (CHG&E).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Rich Wright (CHG&E).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Kelvin Chu (Con Edison)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Gregory Chu (Con Edison), Secretary	<input checked="" 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. Steve Jeremko (NYSEG-RGE)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Robert Boyle (NYPA), Chairman	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Andrea Fossa (NYPA)	<input checked="" type="checkbox"/>	<input 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 (Slater Consulting - Generation Owners)	<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), EC Chairman	<input type="checkbox"/>	<input type="checkbox"/>
Advisers/Non-member Participants:		
Mr. John Adams (NYISO)	<input type="checkbox"/>	<input checked="" 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"/>
Mrs. Kathy Whitaker (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Ms. Mariann Wilczek (NYISO)	<input type="checkbox"/>	<input type="checkbox"/>
Ms. Erin Hogan (NYSERDA)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Ed Schrom (NYPSC)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Glenn Haringa (GE Energy).....	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>
Mr. Yannick Vennes (HQ).....	<input 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 checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>
Ms. Donna Pratt (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. David Allen (NYISO).....	<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 checked="" type="checkbox"/>
Dr. Roy Shanker	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Phil Fedora (NPCC).....	<input type="checkbox"/>	<input checked="" 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 checked="" 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. Glenn Haake (Haake Energy Consulting LLC).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Matt Renninger (Energy Curtailment Specialist)	<input type="checkbox"/>	<input type="checkbox"/>
Ms. Kathy Slusher (SUNY)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Nicholas Occhionero (NYPSC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Timothy G. Lundin (Customized Energy Solutions).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>

1. Action Item Discussion

Erin Hogan (NYSERDA) sent out an updated list of renewable project prior to the meeting for review. She asked if the ICS would agree with her decision to remove Cody Road from the model since it may have been too small to warrant an interconnection study. Chairman Bob Boyle (NYPA) stated that since the turn-on date for the unit is 4th quarter of 2013, it would be ok to remove the project from this year’s IRM model. Ms. Hogan also wondered if Black River/Fort Drum project should be included since there isn’t an interconnection study because it was already connected to the grid and the project is only about a switch to biomass fuel source. The project was not in last year’s base case however. Chairman Boyle recommended keeping this in this year’s base case. The NYISO will review the projects prior to model entry.

Steve Jeremko (NYSEG-RGE) provided an overview of the PJM demand response (DR) program that satisfy action item 131-2. He mentioned that PJM demand response is modeled as an unrestricted load, which is defined as load not reduced by interruptible load program, since DR in PJM is offered in as supply resource. He further described the key points form PJM manual # 20 that deals directly with resource adequacy modeling. The key point is that PJM treats the demand response as a single, 100% available resource that can assist the system in times of need. DR is not limited (by number nor duration of calls as compared to the NYISO program) from the perspective of “capacity modeling” in PJM. It is the key to determine PJM operating reserve, currently assumed as 1300 MW and is the margin between load and available capacity at which DR is

expected to be invoked. He also previously provided a DR program summary table to the ICS that listed the various programs/services utilized by both ISO-NE and PJM.

2. Summary of 2013-14 IRM Study Model Development Status

Al Adamson (NYSRC) mentioned that the transmission topology is due in July, not June.

The NYISO did not have the final load shape white paper with comments incorporated at the time of the meeting. Mr. Adamson mentioned that he has submitted his comments but have not heard back from the NYISO. Chairman Boyle mentioned that the 2007 shape sensitivity study showed approximately 3% drop in the IRM as reported by the NYISO. He mentioned that since the paper is not ready, the 2007 shape can be used as one of the sensitivity cases. Mr. Adamson reminded that the NYISO need to come back with a report that explains the study and its results. Furthermore, he felt that in the long run, the Executive Committee (EC) may not accept the 2002 shape as it is viewed as too conservative.

Gregory Drake (NYISO) stated that the NYISO is pursuing a model enhancement for using different load shapes in the model for use in a future IRM study.

Chairman Boyle stated that until the NYISO provides a final white paper, the ICS would recommend the 2002 load shape at the EC meeting next week.

Mr. Drake stated that as directed by the ICS, they will use the 2002 wind shape. Retirements in the model will follow the guidelines listed in Policy 5, Appendix C. He also stated that the 45% hydro derate is still accurate for this year's IRM study. EDRP/SCR values are not yet available.

3. Load Shape Analysis White Paper

Dana Walters (NYISO) stated that the white paper will be ready by next week. Mr. Adamson reiterated that the ICS needs the finalized white paper that's approved by ICS members, to formulate an ICS recommendation report to the EC.

Mr. Drake stated that Arthur Maniaci is incorporating a section that provides focus on the New York City and Long Island areas and at the same time, incorporating Mr. Adamson's comments.

4. EFORd/APA Model White Paper

Mr. Adamson asked if the white paper and the result of the sensitivity runs are finalized and available for the ICS to approve. Mr. Drake stated that the IRM dropped by 1.5% on a sensitivity study run. Chairman Boyle asked if the code output results matched microGADS number. Mr. Drake said the f factors are slightly different. The next step he said is to look at all units and their EFORd from the code and compare them to the EFORd from the market. Using a zonal comparison, A-E has a higher model EFORd than market EFORd value. F-I is between the 2012 base case and market EFORd. J is close to the market EFORd value and K is lower than both the market EFORd and 2012 base case EFORd.

Mr. Adamson said that the model needs to be approved by the ICS at this meeting since a recommendation is needed at the next week's EC meeting. Since the white paper is not ready, the model cannot be approved.

Chairman Boyle stated that he would be going to the EC meeting with as much as information as he has right now about the EFORd and load shape analysis and advise the committee that these studies are late. He also asked that the NYISO provide Frank Vitale with the maintenance data for the model entry. **(AI 136-4)**

5. Milestone Schedule Review

Mr. Drake mentioned that the NYISO cannot agree with the current milestone schedule since there were additional studies and white papers that will delay the milestone dates. Mr. Adamson stated that the schedule was approved and set with the EC's approval. Chairman Boyle said that even though the NYISO is behind schedule due to the number of the studies and white paper necessary, we will be moving forward according to the schedule. Mr. Adamson questioned that if the NYISO had an objection with the schedule and its due dates, they should have voiced it earlier, not after realizing that the studies will be late. The NYISO's objection to the due dates of the milestone schedule is noted by the ICS.

6. Policy 5 Review

In section 3.5.1 of the document, "typical" will be changed to "appropriate" year. The word "sub-zonal" will be changed to just "zonal".

The treatment of units that have announced their retirement intentions is being added as Appendix C.

In the Unit Performance section of the document, the sentence "using benchmarked NYISO translation software" was added without any objections from the ICS.

In section 3.5.5, appendix D is referred to regarding establishing LCR requirements when the final IRM is different than the base case. When Mr. Drake questioned why the proposed procedure is listed in Policy 5 since this is a NYISO function. Mr. Adamson replied that the RCMS agreement stated the procedure needs to be in a public document. Chairman Boyle said that they have to publish it somewhere. The NYISO voiced concern about the NYISO being responsible for adjusting the model to 0.1 LOLE since it is an ICS study. Chairman Boyle stated that the concept would be that the NYISO will make the adjustments to the base case with the final approved IRM in mind. With the ICS approval of the adjustments, the NYISO can then determine LCR based on this modified case.

Appendix D just illustrates the interim process between the IRM approval and actual NYISO LCR determination. Mr. Drake suggested the sentence to be changed to “by the ICS to align the base case to the final IRM, in preparation for the LCR Study by the NYISO.”

Mr. Adamson also mentioned that an explanation of the reason for this change in the model should be mentioned. He also asked for a time frame on when the NYISO will supply the adjustments to the ICS after the EC meeting. Mr. Drake mentioned December 15th.

In section 3.5.6 regarding outside world data, Frank Ciani wondered if “benchmark” is appropriate in the milestone schedule since the data from the NPCC model is not available until May. There may not be enough time to provide benchmark on the data by June 1st. The word “benchmark” was removed in the milestone schedule.

Chairman Boyle wondered since sections 1.1.4 and 2.1 of the Appendix C are dependent on the completion of NYISO reliability studies for retiring units, if the studies were not done in time, will we be less conservative since these units are left in the model? Mr. Drake stated that by leaving poor performers in, the model is actually more conservative since they will keep the IRM higher.

Appendix D was renamed to “Procedure for Aligning the Base Case IRM to the Final IRM in Preparation for the Locational Capacity Requirement Study by the NYISO.” Base case analysis was reworded to base case “alignment” analysis to better reflect the purpose of this appendix.

The ICS approved the modified version of the Policy 5.

7. PRR-109 SCR performance data reporting requirements

Mr. Adamson stated that the issue that a Responsible Interface Party brought up has been addressed in section 12.3, where a report submitted by RIP that states

no performance data is available will be considered in compliance of the Reliability Rule.

8. SCR Study Report

John Adams (NYISO) mentioned that the only remaining task is for the ICS to provide comments on the SCR Study presented at the last meeting by Donna Pratt (NYISO). The NYISO received Mark Younger's (Slater Consulting) comments. Additional ICS comments are welcome.

9. Sensitivity Results from EFORd/APA Methodology and 2007 Load Shape Analysis

Mr. Drake provided the following results from implementing the changes found in the above two analysis:

APA impact on the IRM: 16.1 ->14.6%

NYC LCR 83.9->82.2%

LI LCR 99.2 - >98.1

2007 Load shape impact on the IRM: 16.1 -> 13.4%

NYC LCR 83.9->81.9%

LI LCR 99.2->97.2%

These two IRM/LCR results are independent of the two analysis. The IRM/LCR are not cumulative results from first adding APA then applying the load shape with APA in the model already.

10. Mark Younger SCR Study Report Feedback

Mr. Younger provided a short presentation about the implications of the SCR Study performed by the NYISO staff. He stated that the NYISO study provided information in 3 areas: response from load level expected, impact of using daily

peak in MARS, and the impact of response duration. He further stated that according to the presented summer 2011 response data, CBL was lower than the ACL performance calculated response, at about only 70-75% of the ICAP level. He also mentioned that the study for different hours of response duration, 4, 6 and 10 hour responses, MARS showed that SCRs has less than 100% capacity equivalency and plateaus out even at 60 days of call per year. In conclusion, Mr. Younger is recommending that the ICS and the Reliability Council need to consider SCR performance under a limited number of calls per year, since the analysis showed that we are overstating the effectiveness of the SCRs in the study by assuming the SCR can be called upon unlimited amount of time. He also spoke to GE and MARS can incorporate a monthly limit for SCR calls.

In the end, Mr. Younger suggested that the NYISO should consider a reduction of the ACL SCR values for the model, an implementation of monthly call limitation, and finally a duration limitation to better mimic realistic SCR behaviors.

Chairman Boyle mentioned that the NYISO needs to come back with a more thorough study of the CBL/ACL comparison to determine the ACL value reduction. Henry Chao (NYISO) asked that the ICS give the NYISO a bit more time to discuss the implication of the suggestions mentioned here. Chairman Boyle said that they need this for the base case. He mentioned possibly using 75-80% ACL deduction. Mr. Drake asked for a week for an official NYISO recommendation **(AI 136-3)**

11. Further Discussions on White Papers and Miscellaneous Overdue Items for the IRM Study

Chairman Boyle mentioned to Mr. Chao that many items that are crucial to the study model are still overdue. Items like SCR values and maintenance data that Mr. Vitale needs are crucial for the model and the time is running short. Mr. Adamson reiterated that the Load Shape Analysis preliminary results showed a large deviation in IRM from last year's base case since Mr. Chao missed the beginning of the meeting.

Mr. Chao and Mr. Drake agreed that the 2 white papers will be ready by Friday June 1st and comments will then be due on June 6th to meet the EC meeting deadline on June 8th. **(AI 136-1, 136-2)**

12. MARS Topology Review

Bill Lamanna (NYISO) presented the topology that was approved at the TPAS meeting. He mentioned the interface limits have changed and they are (numbers in MW):

- 1550 to 1500 for West Central
- Dysinger East limit was established with Dunkirk in
- Central East/Fraser-Gilboa interface is now 3250
- UPNY/SENY from 5250 to 5150
- City & East to 5210
- CE-LIPA to 510
- K to Norwalk from 430 to 428
- Cedar raised to 190
- Zone D to Quebec to 1000
- Zone D to Vermont down to 0 for both directions
- Astoria East bubble transfer limits, due to retirement, are removed. The bubble remained for future scenario testing
- HTP was added to the model through a connection to a new dummy zone J4 with limit rating of 660 MW. 320 Firm Withdrawal Rights from PJM is also included
- Total interface limit of 2000 MW was introduced for the combined ratings of PJM East to RECO, J2 to J, PJM East to J3, and PJM East to J4

Phil Fedora (NPCC) mentioned on the phone that CP-8 had some disagreement on the proper limit to use for K to Norwalk and K to Connecticut. ISO-NE claimed 0 for both of these interfaces. Mr. Fedora said that New England mentioned if they are running local generation in those areas, they cannot support imports due

to N-1 concerns. He recommended that the two areas, New York and New England, should agree to the actual transfer capability.

The topology was approved by the ICS.

Secretary: Gregory Chu

(Con Edison)

Next meetings:

Meeting 137, Wednesday, June 27th at NYISO HQ
Meeting 138, Wednesday, August 1st at NYISO HQ
Meeting 139, Wednesday, September 5th at NYISO HQ
Meeting 140, Wednesday, October 3rd at NYISO HQ
Meeting 141, Tuesday, October 30th at NYISO HQ
Meeting 142, Tuesday, November 27th at NYISO HQ
