

NYSRC Installed Capacity Subcommittee

Meeting #133

February 28th, 2012

9:30 a.m. – 3:00 p.m.

Meeting Minutes

Attendees

	Present	Tel
Members / Alternates:		
Mr. Curt Dahl (LIPA), Chairman	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>
Mr. Gregory Chu (Con Edison), Secretary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Syed Ahmed (National Grid).....	<input checked="" type="checkbox"/>	<input 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).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Andrea Fossa (NYPA)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Rajee Mustafa (NYPA)	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Peter Carney (NYISO).....	<input type="checkbox"/>	<input type="checkbox"/>

- Mr. Frank Ciani (NYISO).....
- Mr. Dave Lawrence (NYISO)
- Mr. Greg Drake (NYISO).....
- Mr. Bill Lamanna (NYISO)
- Mrs. Kathy Whitaker (NYISO)
- Ms. Mariann Wilczek (NYISO)
- Ms. Erin Hogan (NYSERDA)
- Mr. Ed Schrom (NYPSC)
- Mr. Glenn Haringa (GE Energy).....
- Mr. Al Adamson (Consultant).....
- Mr. Frank Vitale (Consultant)
- Mr. Arthur Maniaci (NYISO)
- Mr. Yannick Vennes (HQ).....
- Mr. Scott Leuthauser (Consultant for H.Q. Services)
- Mr. Henry Chao (NYISO).....
- Mr. Howard Tarler (NYISO)
- Mr. Wes Yeomans (NYISO).....
- Mr. Paul Gioia (NYSRC)
- Mr. Dana Walters (NYISO)
- Mr. Donna Pratt (NYISO)

Guests Present:

- Mr. Charlie Shafer (AES)
- Mr. Dean Ellis (Dynergy)
- Mr. Jim D'andrea (Transcanada)
- Mr. Alan Ackerman (Customized Energy Solutions).....
- Dr. Roy Shanker
- Mr. Phil Fedora (NPCC).....
- Mr. Arvind Jaggi (NYISO)
- Mr. Frank Francis (Brookfield)
- Mr. Tom Patrit (EPS)
- Mr. Ruben Brown (The E Cubed Co.)
- Mr. John Dalwin
- Mr. Richard Quimby.....

Mr. Randy Wyett (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. David Allen (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"/>

1. Action Item List Discussions

John Adams (NYISO) will check with Wes Yeomans and report back to the ICS with a status update on action items 108-1a and 108-1b.

Al Adamson (NYSRC) was concerned that several of the documents referenced in the action item lists (Top-Down DR Estimation, Load Shape Study Scope, etc.) were delayed because of the internal reviews required by the NYISO. The delays may affect the IRM report schedule. Chairman Curt Dahl (LIPA) stated that we will determine the potential impact of these items during the agenda discussion.

2. Assumption Matrix Review

Gregory Drake (NYISO) went through the assumption matrix at the meeting and had the following comments:

No major changes on the peak load other than updated values for the model.

A question mark will be entered in the “model change” field, as the new analysis may suggest a different shape to adapt.

Chairman Dahl asked if we decide to use 2002 shape again this year, is it appropriate to use the Load Forecast Uncertainty on top of the already conservative load shape. Mr. Adams mentioned that if the load shape can be developed by bands it would be better. He will speak with Arthur Maniaci (NYISO) more about this topic.

Mr. Drake stated that the composite wind shape led to a slightly higher summer capacity factor from last year's sensitivity study. He proposed that a composite shape should be used for this year but we will need a white paper for this model change. Mr. Drake also recommended a sensitivity run using production data based wind shape. Mark Younger (Slater Consulting) cautioned about the high variability in the wind shape if actual production data is used. He recommended a probabilistic wind shape would be most appropriate. Chairman Dahl wondered if MARS has the capability to do probabilistic shape. Frank Ciani (NYISO) mentioned that MARS has some limited ability to model.

Syed Ahmed (National Grid) asked if 2002 shape is simulated data. Mr. Adams mentioned that the weather data was actual, but the wind output data was simulated. However, wind output data included some actual reading from several 100 feet tall generators. Mr. Younger stated that there were big fluctuations in wind output from year to year. Mr. Ahmed does not believe this will be ready for the base case, but may be for a sensitivity case. Mr. Younger is requesting the NYISO to provide the capability of the MARS program for probabilistic wind shape and to look at the available data for the feasibility of production data based wind shape. **(AI 133-1)**

Retirement treatment was deferred to the agenda section for further discussion.

Mr. Drake mentioned that for the EFORd section of the matrix, APA methodology is currently being validated and the NYISO is working on the white paper.

Wind resources will be determined using the list of wind projects provided by Erin Hogan (NYSERDA). **(AI 133-2)**

Chairman Dahl stated that LIPA has actual solar production data, which he estimates to be around 50 MWs. Mr. Younger asked if summer data is available, Chairman Dahl said that summer data is unavailable since the units only entered service in the fall. Therefore, none of the solar production data can be used for the base case.

Ms. Hogan mentioned that the derate for hydro resources may need to be carefully considered since much like the wind resources, a drought one year can create variability for hydro performance determination. Mr. Younger asked if the run-of-river units were being modeled as a load modifier. Mr. Drake said that the hydros were derated at a monthly basis using historical information. 45% is typically an appropriate estimation (including last year), other than 2002 when the availability for the hydros was set at 25% due to a draught.

Mr. Ahmed mentioned that the bubble diagram used in the report should state the type of transfer limits being described. Chairman Dahl mentioned that the ratings listed are short term emergency transfer limits.

Mr. Adamson commented that new transmission assumptions shouldn't be a model change since a white paper is not needed. Mr. Ahmed commented that we may need a white paper on how Hudson Transmission Partner (HTP) will be modeled. Bob Boyle (NYPA) said that a white paper would add additional burden on the NYISO's workload and may not be necessary, which Mr. Ahmed agreed.

Mr. Drake stated that EDRPs may not be worth modeling since the enrollment decreases every year and it is approximately 20 MWs. Mr. Boyle suggested moving EDRP to general public appeal. The final proposal is to move EDRPs to other EOP category. Mr. Younger commented that if the NYISO think it is too small/unreliable to model and ICS members agree, EDRP should be excluded. If the ICS believes that it is worthy of inclusion, then EDRP should be at the same exact EOP step in the model. Mr. Drake will confirm with Donna Pratt (NYISO) to ensure the proper amount of EDRP to include. David Allen (NYISO) stated that EDRP should not be considered "unreliable" but instead is just too small (and shrinking every year) to spend a lot of time to track every year. Mr. Boyle said that if this amount is tracked already for the FERC report submission, the NYISO might as well keep this in the model. Mr. Allen will follow-up with Ms. Pratt. **(AI 133-3)** Mr. Younger mentioned EDRP had bad performance in the past. Mr. Allen stated that there's not enough data for performance determination. The last time data was available was in 2006.

Mr. Drake stated that there may be a newer version of MARS available soon.

3. Load Shape Model Study Scope

Mr. Maniaci reported on the status of the load shape study scope. He stated that external data for several years must be collected and analyzed first. Right now he is trying to locate a reliable source to obtain external data from. He called this the data collection phase. Chairman Dahl stated that because the Executive Committee is expecting an answer around May, hopefully the NYISO will be mindful of the time frame. Mr. Adams said that since the sensitivity is only performed on NYCA, the external data is very important. Mr. Younger believed that the big IRM influence by the load shape sensitivity study was actually due to the non-coincident change on outside areas, rather than the load shape itself. He recommended that the NYISO to take the 2002 load shape, find the top 10 days and see how the neighbor behaves during those days. Then, take the sensitivity load shape and find how the neighbors behave on those days. This will give the people an idea on the impact of coincidence on the model.

Chairman Dahl stated that outside load shapes should be reconstituted to the shape before the SCRs were implemented. Mr. Maniaci stated that General Electric may have reconstituted load shape already available.

Mr. Adamson mentioned that the white paper needs to be completed in April, while the ICS has not even agreed to keep 2002 load shape or not. Mr. Maniaci said that this load shape selection review is not done until June typically. Mr. Adamson thinks this is a non-standard model and thus the approval is needed by May. Chairman Dahl believed that if the result of Mr. Maniaci's study just asked for a different year's shape, then the model change is standard. Mr. Adamson believed it is going to be a non-standard change. Mr. Maniaci stated that a white paper will not be available by April. He would provide a definite schedule by March 9th. **(AI 131-2)**

4. Top-Down Estimation of Demand Response Report

Mr. Maniaci reported that the documentation has been completed, but will require internal review by the NYISO. Mr. Younger asked that Mr. Maniaci send out the document to the ICS as soon as possible, before the following EC meeting, for review and comments at the next ICS meeting. Comments are due by the last week of March. **(AI 129-6)**

5. IRM Report Template

Mr. Drake has sent out the template but would like to extend the comment period for a couple of weeks. He said that there was some confusion about the version of the template to comment on. He will send out a newer version with Mr. Adamson's comments already incorporated. **(AI 131-4)**

6. Policy 5 Updates – SCR Performance Data Reporting & Modeling Requirements (PRR 109)

Mr. Younger mentioned that SCR data is now required by PRR 109 and with Ms. Pratt's result, he recommend that we perform the same calculation that was done for last year's study. Mr. Adamson asked if the NYISO needed assistance from ICS as to SCR data collection requirements. Mr. Younger said that Ms. Pratt needs to come back with a study on the ACL calculations on the same units that CBL calculations were performed on in her study. **(AI 133-4)** He also asked that Ms. Pratt should come back to tell us if the sample size used previously was adequate, statistically, for future performance calculation. Mr. Boyle recommended that perhaps Mr. Maniaci can help to statistically determine if the current sample size is adequate.

Glenn Haake (Haake Energy Consulting) asked if the NYISO already has the data collection procedure available for review. If so, Mr. Boyle would like the ICS to receive the current procedure for review and comments. Mr. Adamson said that the procedure needs to be formulated by July in accordance with the PRR

109 rule implementation plan; there would be no non-compliance findings. Mr. Allen will go back and circulate procedures for members' comments by either the May or June time frame. **(AI 133-5)**

Mr. Younger will work with Mr. Adamson to provide some wording in Policy 5. **(AI 133-6)**

7. PRR 109 Approval

Mr. Adamson provided an update on the reliability rule that was approved by the ICS at the February 2nd meeting. The only change by RRS was the addition of the definition of the term Responsible Interface Party (RIP) to the PRR. The Executive Committee approved posting the PRR on the NYSRC website for a 45 day comment period. If no comments are received, it is likely that the rule will be adopted by the EC in April.

8. Outside World Model –Data Screening and On-time Delivery

Mr. Ciani stated that at the last CP-8 meeting, the PJM representative may be able to provide data by late July/early August. This is not enough time to review the data for base case inclusion. Instead, Mr. Ciani recommended that the ICS use instead the most current CP-8 model data (winter assessment data), which is vetted in early June by GE. Scott Leuthauser (HQUS) asked if this data use winter DMNC. The CP-8 data will use the most recent data for both summer and winter. Mr. Ciani stated that the sentence “use the most current data from NPCC CP-8 model” should be included in Policy 5.

9. Final IRM reliability Adequacy Affirmation & LCR Calculation Methodology

Chairman Dahl said that at the conference call, Mr. Drake provided a straw man procedure for LCR determination based on the final IRM. Mr. Drake mentioned that he did not receive additional comments on the procedure.

Mr. Adamson asked for clarification on “parameter” in section 2.a.i of the document. Mr. Drake explained that the parameter(s) are minor changes that the NYISO can modify/update to bring the case back to 0.1 LOLE if the final IRM value deviated from the base case by 0.5 percentage point or less. The parameters will be presented to the ICS if and when modification is required.

Mr. Adamson also wondered if the NYISO should apply this to a higher final IRM. Mr. Drake said that a higher IRM would imply there’s a safety margin and therefore not really a concern when compared to a lower final IRM that may violate reliability criteria. Mr. Adamson suggested an alternative method that uses the final IRM and determine the LOLE at that IRM (which would be higher than 0.1), and freeze the model and perform analysis on parameter changes on this case and compared this to Mr. Drake’s methodology results. Mr. Drake agreed and will speak with Mr. Adamson for more details.

Henry Chao (NYISO) had a concern that if the new load forecast actually increased the IRM and may violate 0.1 day reliability rule. Mr. Drake emphasized that the LCR process starts with a case that meets 0.1, as Mr. Chao mentioned the NYISO has an obligation to meet. The NYISO should have the flexibility, if the final IRM is slightly different (0.5 percentage point or less), to make whatever adjustment necessary to ensure the case results in 0.1. Chairman Dahl said that due to the complexity of the topic, another call should be schedule for further discussion at a later time. **(AI 133-7)**

10. Retirement Treatment in Policy 5

Mr. Drake stated that a draft proposal has been circulated to the ICS and it is being internally reviewed at the NYISO. Mr. Younger commented that some items listed in the proposal should be stated with more detail. He also had a concern about treating lay-up/mothballed units the same as retired units. He argued that the units can return at anytime. A letter of intent to retire does not guarantee retirement. Mr. Boyle cautioned that the unit may change its status based on economics, which is not being considered in the reliability study. Mr.

Allen agreed that there's no obligation to retire, but he also stated that there should be no distinction between intent or otherwise, to retirement and mothball, since the NYISO needs to plan for the unit being unavailable.

Mr. Ahmed said that the statement "the unit is not operable" should be expanded. Mr. Adamson said that Policy 5 "create", not "update" base case. He also said that Technical Bulletin 185 may need to be defined if it is mentioned.

11. EFORd/Transition Rate Method Update

Mr. Drake reported on the status of Associated Power Analysts (APA) method. He circulated the validation process document. The method has been delayed due to unforeseen computer problems. Mr. Drake has confidence in the Fluegy software results. Dr. Singh is currently performing validation methods on the test unit data provided by the NYISO. The white paper is on target to meet the May 1st deadline.

12. Special Case Resources Study Update

Mr. Adams stated that the consultant has provided preliminary results. The study results on performance/persistence should be available by the April time frame.

13. Active Demand Response Performance Presentation – ISO-NE

Mr. Ahmed provided the ISO-NE's presentation on their Demand Response program. He stated that ISO-NE's audit result on their DR performance is 94.8% (920 MW/ 970 MW). New England' response performance on July 22nd 2011 was 100.3% (644 MW/ 642 MW).

Erin Plasse (Central Hudson Gas & Electric Corp.) asked if the performance was from actual measured/metered data. Mr. Leuthauser asked about the number of calls modeled by the ISO-NE. Mr. Ahmed is still conversing with the ISO-NE to determine the number of calls. Mr. Ahmed also said that he received a document

that explains how the ISO-NE calculates the performance and will discuss further at the next meeting. He stated that there is no limitation on the number of calls.

Steve Jeremko (NYSEG-RGE) reported that he will be putting the PJM SCR program summary together within a few days. **(AI 131-2)**

Secretary: Gregory Chu

(Con Edison)

Next meetings:

Meeting 134, Wednesday, April 4th at NYISO HQ
Meeting 135, Wednesday, May 2nd at NYISO HQ
Meeting 136, Tuesday, May 29th at NYISO HQ
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
