

NYSRC Installed Capacity Subcommittee

Meeting #124

May 31ST, 2011

9:30 a.m. – 3:00 p.m.

Meeting Minutes

Attendees

	Present	Tel
Members / Alternates:		
Mr. Curt Dahl (LIPA), Chairman	<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 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 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 checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Robert Boyle (NYPA).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Han Huang (NYPA)	<input type="checkbox"/>	<input 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)	<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 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 checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Arthur Maniaci (NYISO)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Yannick Vennes (HQ).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Scott Leuthauser (Consultant for H.Q. Services)	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>

Guests Present:

Mr. Charlie Shafer (AES).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Jim D'andrea (Transcanada)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Alan Ackerman (Customized Energy Solutions).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Chris De Graffenried (Con Edison)	<input type="checkbox"/>	<input type="checkbox"/>
Dr. Roy Shanker	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Phil Phedora (NPCC)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Arvind Jaggi (NYISO)	<input checked="" 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	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. John Dalwin.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1. Assumptions Matrix

Erin Hogan (NYSERDA) presented the list of renewable generation projects. Chairman Curt Dahl (LIPA) asked if the solar resource modeling section of the matrix should state 46.7 MW instead of 52 MW. Ms. Hogan mentioned that 10.6 MW incremental should be added to 36.1 MW. Mr. Dahl will get new dates for the timing of the solar projects from LIPA. (AI 124-1)

Mark Younger (Slater Consulting) asked if 15 MW of new wind was correct. Mr. Dahl asked the NYISO to provide some guidance. Gregory Drake (NYISO) stated that there are four candidate wind projects to consider in the study: Ellenburg 2 Windfield, Howard Wind, Jordanville Wind, and Prattsburg Wind Farm. Ms. Hogan stated that Ellenburg 2 should not be included based on her conversation with Rajee Mustafa (NYPA).

National Grid, NYSEG, and NYPA should furnish ICS with any available information about new wind projects. In particular, National Grid will investigate Jordanville and NYSEG will find out about Howard Wind. (AI 124-2)

Mr. Drake stated that by next meeting the NYISO will report on the wind shape model. (AI 124-3) Mr. Dahl wondered how they are coming up with the representative shape. Mr. Drake said that simulated wind shapes from 2002, 2004, and 2006 will be used, with the intent to transition to production data in the future.

Bayonne and Astoria 2 are the new generating units that will be included in the study. The list of new units will be finalized by the next ICS meeting.

Unit retirements for Far Rockaway 4 and Glenwood 4 & 5 will be modeled as sensitivity studies.

Al Adamson (NYSRC consultant) questioned units with less than 5 years "could" use available representative data. Mr. Drake responded that units with 2 years of GADS data are not enough to be included in the forced outage rates. Units with 3 years of data can be considered. Units with 4 years of data will probably be included.

Mr. Adamson recommended that “true-up” should be renamed as APA method.

Syed Ahmed (National Grid) suggested that Dr. Channad Singh’s paper can be considered as a white paper for the implementation of the method developed by Associated Power Analyst, Inc (APA) in this year’s model. Mr. Dahl stated that the paper is a critic of the methods, a separate white paper will be needed as per Policy 5. All parties agreed that if the APA method is developed by September of this year, it will be included as a sensitivity study in this year’s report.

Frank Vitale (NYSRC consultant) will analyze planned and summer maintenance outages data from NYISO by next ICS meeting. (AI 124-4)

Data for both Special Case Resource (SCR) and Emergency Demand Response Procedure (EDRP) resources will be available from the NYISO by the end of June.

Emergency Operating Procedures (EOPs) will be determined by the end of July.

2. Load Forecast Uncertainty (LFU)

Arthur Maniaci (NYISO) reviewed the results of load forecast uncertainty. The NYISO received updated LFU calculation results for Zone K from LIPA and Zones J and H+I from Con Edison. The NYISO developed the aggregate LFU model for all other zones. The NYISO identified the biggest change between last year’s model versus this year’s model is saturation at high temperature ranges for NYCA net areas (Zones A-G). The change is equivalent to a change of approximately 3% of the forecasted peak and it created an asymmetrical bell curve, as exhibited in the previous model. Con Ed’s service area will see a decrease of almost 1% of the forecasted peak at the highest bin when compared to last year’s results.

Chairman Dahl asked Mr. Maniaci to present the LFU to Load Forecast Task Force at their meeting. Mr. Dahl is asking the NYTOs from areas that were not

represented by LIPA or Con Edison models to review the saturation effect that led to the 3% change presented here at the ICS. (AI 124-5)

3. Load Shape Analysis

Mr. Maniaci also presented on the load shape analysis. The NYISO reviewed the 2010 load shape and compared it with the 2002 load shape that is currently used in the IRM Study. The study was done on NYCA as a whole, and J and K independently. The NYISO also studied several measures of weather with cooling degree days, cumulative temperature and humidity index (CTHI), and daily and hourly load duration curve for the 3 study areas. Demand response effects were also removed from the hourly loads. EOP effects were also excluded.

The NYISO reviewed 2002 load duration curve (LDC) and when compared with the 2010 LDC, the 2002 LDC exceeds the load level of 2010 when top 90 load days, top 40 load days, and top 200 hours were reviewed. Therefore, Mr. Maniaci stated that 2002 load shape should be maintained for the IRM study.

The load shape report will be sent to ICS members for review by the end of the week (6/2/2011) and will be accepted at the next ICS meeting. (AI 124-6)

4. MARS Transmission Topology Review

Bill Lamanna (NYISO) presented the MARS transmission topology to be used in the IRM study.

Mr. Lamanna commented that MARS is a bubbles and pipes, with 10 zone-to-zone interfaces that may be reviewed for changes. A nomogram exists on central east interface but was not mentioned in the slides. A total of 9 grouped interfaces were also listed in the presentation.

Mr. Dahl asked if this topology was presented and accepted by the Transmission Planning Advisory Subcommittee (TPAS). Scott Leuthauser (consultant for H.Q. Services) mentioned that at the TPAS meeting Mr. Lamanna was asked to look

into the Ontario interfaces to ensure accurate representation. Mr. Lamanna replied that he contacted Ontario and the current model representation is adequate.

Syed Ahmed mentioned that the transfer limits for these interfaces are emergency limits, but the slide does not explicitly state this fact. There needs to be a footnote stating that these are emergency limits to avoid confusion.

Mr. Dahl asked the NYISO if Indian Point unit retirements are evaluated as a sensitivity study. Mr. Lamanna responded that they do have the numbers for that sensitivity scenario.

When Mr. Ahmed questioned the 99,999 values used for the interface between Athens-Gilboa and Zone G on the topology map. Mr. Lamanna recommended removing it.

The ICS approved the MARS topology, subject to the removal of 99,999 MW limits and a footnote stating that the limits are emergency ratings.

Mark Younger recommended that normal and emergency limits should be made publicly available. Henry Chao (NYISO) responded that the NYISO is currently looking to post both limits on its website, since planning limits are not always the same as the operational limits.

5. APA Model Status

John Adams (NYISO) reported that an intern will arrive on 6/13; this person will be dedicated to implementing the APA method into the MARS model. This work is expected to be available by September. (AI 124-7)

Mr. Adams also mentioned that Mr. Drake have been studying GADS data and will implement approach #1 from APA's recommendation.

Mr. Ahmed asked which of the two methods uses "F factor". Mr. Adams stated that method 1 uses the F factor.

6. SCR Study Scope

Mark Younger reviewed the draft letter to the NYISO regarding SCR study scope. He mentioned only Mr. Dahl and himself provided comments.

Steve Jeremko (NYSEG-RGE) mentioned that they'd like to review this in further detail. Mr. Younger requested that comments should be submitted by Thursday (6/2/2011). The letter will then be finalized and signed by Friday (6/3/2011). (AI 124-8)

ICS requested that Wes Yeomans (NYISO) provide a final SCR scope and a status report of the study by the next meeting. (AI 124-9)

Ruben Brown asked when the SCR study will be completed. The NYISO stated that the study is scheduled to be completed by the 1st quarter of next year. Progress reports submitted for future ICS meeting can further refine the due date.

Mr. Brown mentioned that the term "discount" is not appropriate; "derate" is perhaps a more appropriate term to use in the letter. There were also concerns that information about individual suppliers may be disclosed unless aggregation is implemented. John Adams stated that category will be discreet and Henry Chao mentioned that the NYISO will protect the identity of the suppliers.

7. Policy 5 Revisions

Al Adamson reviewed Policy 5 revisions and members' comments provided previously.

Gregory Drake believes that the benchmark should be moved to later than April 1. The members agreed that it should be moved to June 1 instead, as July would be too late to support the base case.

Scott Leuthauser suggested that "and/or wheel-through" be added on page 14 under Sales. The NYISO agreed that "wheel-through" be recommended as a

sensitivity study, and be added to the section called Assumption Uncertainty Impacts in section 3.6 of Policy 5.

The revised Policy 5 will be circulated to the members and any additional comments are due by Friday (6/3/2011). (AI 124-10)

8. Parametric IRM Impact Analysis Summary

Steve Jeremko presented a sample Parametric IRM Impact Analysis Summary table to be considered for inclusion into the IRM Study. This detailed Parametric IRM Impact concept used all parameters from the Assumptions Matrix with cross-reference to the Table 1 Parametric Summary used in the IRM Study.

After some discussion, the ICS agreed to incorporate the expanded Parametric summary in the IRM Study. The list of parameters would match the line-item parameters summarized in Table 1. This new table would be included and referenced within the Appendix section of the report. The existing Table 1 line-item summary and the Assumptions Matrix formats would therefore remain intact.

9. ICAP-UCAP Translations

Mr. Jeremko compiled and presented the historic installed capacity (ICAP) and unforced capacity (UCAP) requirements from 2006-2010. The stated purpose of this information was to illustrate and document the relationships between several parameters, including: Forecast Peak Load, ICAP Requirements, UCAP Requirements, IRM and Locational Capacity Requirements (LCRs), where applicable.

Mr. Jeremko developed two basic sets of charts; one showing capacity requirements for locational areas (NYCA, NYC and LI) and another set of capacity statistics compiled by transmission zone. The graphs only reflect summer data. Jeremko also stated that the graphical depiction of this publicly-available information was not compiled elsewhere.

Mr. Jeremko agreed to revise the sections of the report that reference ICAP-UCAP and to develop draft text that integrates this information into existing text. (AI 124-11)

10. Glossary

Mr. Jeremko introduced a comprehensive Glossary of Terms to be considered for inclusion into the IRM Study. Mark Younger questioned whether the glossary should be included in the IRM report or instead be posted on the NYSRC website. Al Adamson expressed concern that if the glossary was to be included in the report, it should only contain terms referenced within the report.

The ICS agreed that glossary should be in the IRM report and asked Mr. Jeremko to ensure the glossary includes proper terms that are located in the report. Syed Ahmed will assist Jeremko in this effort. (AI 124-12)

11. ICS Member Roster

Mr. Jeremko reviewed the latest round of changes included in the ICS Roster – and asked for any further updates. (Dean Ellis (Dynergy) was added to the roster after the meeting.)

12. Milestones

A draft MIF for quality assurance review will be provided by NYISO by mid-June. (AI 124-13)

The NYISO will provide a draft of the Assumption Matrix by the end of the week. The Assumption Matrix will be finalized by the next meeting. (AI 124-14)

13. Action Items

As per discussion during the meeting, action items will no longer be included in the minutes, but will be listed in a separate document instead for review at the meetings.

Secretary: Gregory Chu

(Con Edison)

Next meetings:

Meeting 125, Wednesday, June 29th at NYISO HQ

Meeting 126, Wednesday, Aug 3rd at NYISO HQ

Meeting 127, Tuesday, August 30th at NYISO HQ

Meeting 128, Wednesday, October 5th at NYISO HQ

Meeting 129, Wednesday, November 2nd at NYISO HQ

Meeting 130, Monday, November 28th at NYISO HQ
