

NYSRC Installed Capacity Subcommittee

Meeting #113

June 23st, 2010

9:30 a.m. – 2:30 p.m.

Meeting Minutes

Attendees

| | Present | Tel |
|--|-------------------------------------|-------------------------------------|
| Members / Alternates: | | |
| Mr. Curt Dahl (LIPA), Chairman | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Mr. Carlos Villalba (Con Edison), Secretary | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Mr. Kelvin Chu (Con Edison) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Mr. Madison Milhous (National Grid)..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Mr. Syed Ahmed – (National Grid) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Mr. Steve Jeremko (NYSEG-RGE) | <input type="checkbox"/> | <input checked="" 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. Rajee Mustafa (NYPA) | <input type="checkbox"/> | <input type="checkbox"/> |
| Mr. Han Huang (NYPA) | <input type="checkbox"/> | <input type="checkbox"/> |
| Mr. Glenn Haake (Dynergy, Inc. - Generation Owners)..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Mr. Harry Joscher (PSEG Power, LLC)..... | <input type="checkbox"/> | <input type="checkbox"/> |
| Mr. Chris Wentlent (AES-NY)..... | <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. Robert Boyle (NYPA)..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Mr. Rich Wright (CHG&E) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ms. Erin Plasse – filling in for Rich Wright (CHG&E)..... | <input type="checkbox"/> | <input type="checkbox"/> |

Advisers/Non-member Participants:

| | | |
|---------------------------------|-------------------------------------|--------------------------|
| Mr. John Adams (NYISO) | <input 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).....
- Mr. Bill Lamanna (NYISO)
- Ms. Tracy Landers (NYISO).....
- Ms. Mariann Wilczek (NYISO)
- Ms. Erin Hogan (NYSERDA)
- Mr. Ed Schrom (NYPSC)
- Mr. Glenn Haringa (GE Energy).....
- Mr. Gary Jordan (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)

Guests Present:

- Mr. Jim D’andrea (Transcanada)
- Mr. Sam Krueger (Dynergy, Inc.)
- Mr. Alan Ackerman (Customized Energy Solutions).....
- Mr. Paul Gioia (NYSRC)
- Mr. Chris De Graffenried (NYPA)
- Dr. Roy Shanker
- Mr. Liam Baker (US Power Gen)
- Mr. Wes Yeomans (NYISO).....
- Ms. Kathune Zannat (LIPA)
- Mr. Arvind Jaggi(NYISO)
- Mr. Dean Ellis (Dynergy).....

1. Assumptions Matrix

The members reviewed all the 2011-2012 IRM study assumptions . The following is a summary of the discussions the members had for each of the parameters:

a) Peak Load: The peak load will be adjusted in the first days of September to reflect the October forecast after NYCA's peak load experience in 2010 and the DEC second quarter EEPS achievement report.

Deleted: based on the

b) Load Shape Model: After reviewing a NYISO presentation, in which the 2006 load shape is compared to the average and the 2002 load shape the members concluded that the 2002 load shape continues to be more conservative for having more peak days higher than the average and 2006 load shapes. The members concluded that the 2002 load profile will be used.

c) Wind Profile Model: There were some concerns in regards to continue using the 2002 wind generation shape only for the IRM calculations. The members want to explore the impact of different wind generation profiles to determine whether or not an average wind generation profile is more appropriate. The NYISO proposed adjusting the 2006 wind generation profile to the 2002 Load shape and run a sensitivity analysis.

Deleted: Shape

Deleted: shapes

Deleted: shape

Deleted: shape

d) Load Forecast Uncertainty (LFU) Model: Con Edison circulated a description of the forecast uncertainty calculation methodology that will be included in the NYSRC Policy 5. The NYISO and the members agreed with the methodology. This methodology only calculates the uncertainty around the weather and does not include any economic uncertainties. Before deeming this methodology as final, the members will ask the NYISO and Con Edison to determine whether or not a methodology to calculate an uncertainty around the economy is necessary.

e) Solar Resource Modeling: Mr. Carlos Villalba presented a solar power output vs cloud coverage correlation. More investigation is needed to change the calculated capacity factor of 65% to a higher number.

f) Forced & Partial Outage rates: The members asked the NYISO to verify the 5 year EFORd values for Zones A-E reported in Attachment C-1 of the assumptions matrix, since it was noted that the annual values were greater on average for the last 9 years.

Deleted: The member have not agree to the true up EFORd until the NYISO presents the methodology steps to the group.

Deleted: 06252010 Draft

- g) Non-NYPA Hydro Capacity Modeling: Mr. Frank Ciani presented the 20 hrs – 5 year average calculation that resulted in a derate factor of 45.7%. His presentation also illustrated that the 2007 was the worst year of the 5 that were averaged with a approximate 75% derate. Based on these calculations the members concluded that the 45% derate was still a valid number to use.
- h) SCRs: Mr. Mark Younger again asked the NYISO to perform the growth rate calculations using the ICAP growth instead of UCAP. The NYISO will wait until after the third week of July when the the final August SCR registration results are published.
- i) External Capacity Purchases: Interties to PJM will be derated in the model to not count with additional emergency assistance from PJM. They will be derated by 1043 MW the difference between 1080 MW from the NYSEG deliverability rights and 37 MW of a grandfathered contract. All other interfaces with external capacity purchases will be modeled as explicit contracts in MARS.
- j) Capacity Wheels-thru: The HQ-NY-NE and the Ontario–NY-NE wheels-thru may be modeled as sensitivities since the NYISO is silence on this subject.
- k) Topology: Bill Lamanna reported to the group the summary of changes and the interface’s transfer limits. The group discussed the modeling of New England and PJM. For New England, the members resolved the following:
- Model all 13 areas of ISONE
 - Phase 2 will be modeled at 1400 MW with 900 MW as emergency assistance and ISONE with a reserve margin of around 10%.
 - UPNY/SENY transfer limit at 5250 MW
 - The NYISO will investigate if the MARS simulation running-time increases when the new southwest PJM area is included in the model.

Deleted: will

Mr. Carlos Villalba asked the NYISO how they were adjusting the neighboring pools LOLE in IRM study to assure compliance with the NYSRC, Policy 5 methodology. According to the response, the NYISO is not following the NYSRC reliability procedure and criteria described in Policy 5 when evaluating the RNA.

It was discussed by the members that the methodology the NYISO used is less

Deleted: The

Deleted: 06252010 Draft

stringent and may lead to understate the NYCA need for resources to meet future IRM. Mr. Dahl added that the IRM study methodology to determine the LOLE of neighboring pools is more sophisticated than the one used by the RNA.

Deleted: s

Deleted: for new capacity

2. Policy 5 Changes

There were some discussions about the type of material and the timing of the changes that need to be made in the Policy 5 document before the IRM study calculations.

3. Shifting and Proportional methodologies results

The NYISO presented the previously circulated LI and NYC IRM/LCR curves. The members concluded that the results were reasonable, however the NYISO was asked to calculate one more point on the Long Island curve to proof that:

- The curve has a more pronounce inflection point.
- There is saturation on the amount of imports the transmission into the island could support.
- There is not a problem with the modeling of the HVDC lines.

4. Action Items

Closed

100-5. SAS Code: NYISO determined that it would not be transparent and release the code to ICS members for their review; however, they will continue using it to calculate the unit's transition rate tables.

101-2. Hydro Derate: Closed after a NYISO presentation that proved that 45% is the correct derate on average for the run-of-river hydro units.

108-8b. Use UCAP Methodology: NYISO will adopt the methodology for the 2011-2012 IRM study.

112-3. Reduce NE Model: The ICS decided not to reduce the ISONE model for MARS.

112-4. Norwalk nomogram: The parameters were supplied by LIPA.

Revised

All action items due were reviewed and discussed.

Deleted: 06252010 Draft

102-2. LFU methodology: Needs to be finalized and wrote in a format for the Policy 5. Also awaiting resolution on including the economic uncertainty.

102-5. Shifting Methodology: The NYISO will run a 23% point on the LI curve.

103-1. MARS model transparency: Frank Ciani to benchmark version 3.5 of MARS and test for data masking capabilities.

107-3. SCRs calls: To close this item the NYISO will send the number of calls per month

112-2. EFORd calculation: Need to send procedure of how the NYISO is performing the calculations.

New

113-1. Greg Drake. Explore having a sensitivity around an average load shape.

113-2. All. Present the UCAP and proportional methodologies to the EC as soon as 102-5 results are available.

113-3. Greg Drake. Calculate winter and summer EFORd to evaluate differences

Secretary: Carlos Villalba

(Con Edison)
