

# NYSRC Installed Capacity Subcommittee

Meeting #155 – Conference Call

January 6th, 2014

2:00 p.m. – 5:00 p.m.

Meeting Minutes

## Attendees

|   | Present                  | Tel                                 |
|---|--------------------------|-------------------------------------|
| Members / Alternates:   |                          |                                     |
| Mr. Curt Dahl (LIPA), <b>EC Vice Chairman</b> .....                 | <input type="checkbox"/> | <input type="checkbox"/>            |
| Mr. Yuri Fishman (LIPA) .....                                       | <input type="checkbox"/> | <input checked="" 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 type="checkbox"/>            |
| Mr. Gregory Chu (Con Edison), <b>ICS Vice Chair/Secretary</b> ..... | <input type="checkbox"/> | <input checked="" 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 Tighe (NYSEG-RGE) .....                                    | <input type="checkbox"/> | <input type="checkbox"/>            |
| Mr. Richard Brophy (NYSEG-RGE) .....                                | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Mr. Robert Boyle (NYPA).....  | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Mr. Andrea Fossa (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 (Hudson Energy Economics, LLC.) .....              | <input type="checkbox"/> | <input checked="" 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:                                   |                          |                                     |
| Ms. Erin Hogan (NYSERDA), <b>ICS Chair</b> .....                    | <input type="checkbox"/> | <input checked="" 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) .....  .....
- Ms. Mariann Wilczek (NYISO) .....  .....
- Mr. Steve Lemme (NYISO) .....  .....
- Mr. Ed Schrom (NYPSC) .....  .....
- Mr. Nicholas Occhionero (NYPSC) .....  .....
- Mr. Al Adamson (Consultant).....  .....
- Mr. Frank Vitale (Consultant) .....  .....
- Mr. John Adams (NYISO) .....  .....
- Mr. Arthur Maniaci (NYISO) .....  .....
- 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) .....  .....
- Ms. Donna Pratt (NYISO) .....  .....
- Mr. David Allen (NYISO).....  .....
- Dr. Kai Jiang (NYISO).....  .....
- Mr. Mark Walling (GE) .....  .....
- Mr. Gary Jordan (GE) .....  .....
- Mr. Glenn Haake (NYPA).....  .....

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) .....                               | <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 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"/>            |
| Mr. Liam Baker (USPowerGen) .....                        | <input type="checkbox"/> | ..... | <input type="checkbox"/>            |
| Mr. Luc Bernier (HQUS).....                              | <input type="checkbox"/> | ..... | <input type="checkbox"/>            |

**1. Action Item – Export Modeling**

Chair Erin Hogan (NYSERDA), in reviewing action items 108-1a, 108-1b, 134-4 and 135-1, has recommended a consolidation of the tasks due to their common topic of modeling exports to external areas. Mark Younger (Hudson Energy Economics) wanted to make sure that modeling exports with units at the border versus a locality farther away from the border makes no difference, as claimed by the NYISO. Frank Vitale (NYSRC – Consultant) recalled years ago MARS runs were performed to show this. The concern here is that the current way of modeling exports may have disregarded internal interface constraints that would limit the actual amount of exports leaving New York. Mr. Younger believes that the current model does not model exports in the proper priority and thus may be in violation of the joint operating agreement between New York and New England.

ICS has agreed to ask Henry Chao (NYISO) to stop by and address this concern.

The combined action item will be reworded to reflect the 2 questions: Is the

priority of exports modeled correctly in MARS, in adherence of the joint operating agreement, and if not, how should the exports be modeled accurately. **(AI 108-1)**

## **2. 2015 IRM Study Milestone Schedule**

Chair Hogan formatted the milestone schedule slightly differently this year to include EC meeting dates and parties responsible for tasks. Al Adamson (NYSRC- consultant) mentioned that the EC meeting for February is on 2/14, not 2/7. He also mentioned that the September EC meeting is on 9/12, not 9/14.

Mr. Adamson said that he added a line in February about the possibility of having PJM representation as a modeling enhancement.

Mr. Adamson said that Vice Chair Gregory Chu (Con Edison) pointed out that the line in June “NYISO & GE conduct preliminary data quality assurance reviews” should be removed, since the preliminary database will not be available until July.

Mr. Adamson also added a line in September for the NYISO to provide a report on the QA findings. Bob Boyle (NYPA) asked about when the EC is supposed to receive the preliminary database. Mr. Adamson said by the July EC meeting. Mr. Boyle recommended that GE should have at least performed their QA process and provided their findings/recommendations in a report by July, before the EC receive the database. Gregory Drake (NYISO) had some concerns about completing initial master input file preparation by the July ICS meeting. Chair Hogan reassured him that the task is due by the August ICS meeting, the NYISO is expected to work through July.

Mr. Boyle suggested that the June QA by GE and the NYISO should be there in the milestone. Chair Hogan stated that until the preliminary assumptions are locked down in July, the model would change and thus QA should still be ongoing. Mr. Drake clarified that by the end of July, the NYISO would have finished putting together the master input file, and would then submit it to GE for their review over the course of a couple of weeks. He mentioned the NYISO

would typically receive the findings by mid-August. Frank Ciani (NYISO) stressed that last year the NYISO had to provide a partial preliminary base case for GE to review due to some missing information updates like SCR and topology. Chair Hogan suggested that the July QA task should be deleted since GE will not be able to perform that during July. Mr. Drake stated that parametric study is performing concurrently with GE QA reviews. Chair Hogan wondered if there needs to be a step to show that deficiencies are addressed. Mr. Adamson recommended that the QA should be completed by September, but he has no objection if the group would like to advance the task to an earlier time frame. Chair Hogan is concerned if the deficiencies would be addressed in time. Mr. Drake said that in general the NYISO would get 99% of the correction completed in August.

Finally, Mr. Drake said that the NYISO will be able to make the milestone tentatively, pending a review of the final edits on the milestone schedule.

### **3. 2014 IRM Lessons Learned**

Mr. Adamson said that the delay in quality assurance completion during last year's study was of concern and needs to be avoided. The second item was the number of iterations needed for the IRM study MARS runs.

Mr. Boyle said that the line of communication broke down last year during crunch time. He recommended a conference call 2 weeks before the ICS meeting to avoid running into problem while running out of time. This is evident during outside load alignment adjustment, where the study was delayed and Mr. Boyle was not able to establish contact with the NYISO at the time to get more information.

Mr. Vitale mentioned that towards the end of the year, the NYISO was late in providing some charts and numbers to him for the IRM report appendix.

The accomplishments achieved last year included the implementation of multi-year load shape and wind shape study. Both were major tasks and significant

efforts were needed to complete them on time. Furthermore, the EFORD results from the new methodology were reviewed, anomalies were identified and corrected, and improvements to the software to prevent future anomalies were implemented.

#### 4. White papers

Chair Hogan asked for a clarification of white papers since it wasn't clear if a short report is sufficient to be considered a white paper. Mr. Younger mentioned that most of the time, the white paper needs some technical analysis and would be time consuming. Mr. Boyle agreed, but also mentioned that sometimes the EC just needed to see a page or two from the study. Chair Hogan stated that it would be beneficial to queue up the list of white paper topic list now in this meeting, to assess if the topic warrants a major study, depending on the expected impact on the study. Due to the amount of work needed for the papers, Mr. Boyle said the members previously agreed to 4 papers per study year. He said the minimum number of iterations needs to be determined and that may need a white paper. **(AI 155-1)** Mr. Drake said that he does not believe that number of iterations needs to be a white paper. He said that the NYISO has a simple proposal and would like to present to the group later. Chair Hogan wondered if policy 5 needs to be changed, and Mr. Boyle said yes. Chair Hogan said that if a page or two can be presented to the group and that should suffice.

PJM SCR modeling, Chair Hogan said, would be another white paper topic. She said that we first would need to bring back to the group the program requirements. We would then need to determine if MARS needs to be modified to model that correctly.

Voltage reduction duration/effectiveness would be another possible white paper topic.

Transmission outages to be modeled would be one more possible white paper. Mr. Younger said the concept is rather simple since we can assign some representative outage rates to the interfaces and identify IRM model effects. Mr. Adamson said that this is a complex issue due to the multi-state nature that

needs to be represented in the model, and that this topic probably could not be addressed at this meeting, and Chair Hogan agreed. Mr. Adamson said that the Transmission Outage Working Group (TOWG) should create a scope and present to the ICS.

Finally, proper export modeling as stated in the 4 consolidated action items may also need a white paper.

## **5. Locational Capacity Requirement Calculation Process**

Chair Hogan reminded the members that the LCR process, that included the new capacity zone, has been posted on the NYISO website. She recommended that perhaps part of that language should be included in Policy 5 since she considered the NYISO process to be well written.

Mr. Drake stated that the posted process does not change any part of the IRM process. Tangent 45 is still in effect. He also said that the method to determine minimum capacity requirement for zones J and K remains the same as well. The only addition is that a new process has been established to determine the LCR for the lower Hudson valley zone.

## **6. Need for Other Process Documents**

Chair Hogan said that this will be the last year that Mr. Vitale will be with this subcommittee group. She thought about the need to capture the various tasks that Mr. Vitale, and others as well, that the IRM study would require throughout the study year. She said we should highlight the key tasks Mr. Vitale normally performs for the IRM study. Over time we can add more tasks and details, and eventually create a manual for these processes. **(AI 155-2)**

## **7. NPCC Directory 1 Draft**

Mr. Adamson said that NPCC recently released Directory 1, which deals with the design and operation of bulk power system. This year the directory included New

York standards in the planning area. In particular, the directory has sections on resource adequacy criteria, transmission planning criteria, and transmission operation criteria. Mr. Adamson said he looked at the revision on resource adequacy. He said that he does not believe the addition in that section was warranted. Both he and Chair Hogan provided comments and the comments are a part of meeting package. The comments are due by the 3<sup>rd</sup> week of January, but the comments need to go to the EC by their meeting on Friday.

Mr. Ciani said that the NYISO reviewed the directory as well, but the NYISO has sent some comments back already. Mr. Adamson wondered if the comments were consistent between ICS and the NYISO. Mr. Adamson asked if the NYISO can provide the comments to the group to ensure consistency. Mr. Ciani said he'll check back to see what was submitted. Mr. Adamson stressed that this is important because any NPCC criteria must be reflected in our criteria as well. **(AI 155-3)**

Secretary: Gregory Chu

*(Con Edison)*

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Next meetings:

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

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