

# NYSRC Installed Capacity Subcommittee

Meeting #134b Conference Call

**April 18th, 2012**

**8:15 a.m. – 9:45 a.m.**

Meeting Minutes

## Attendees

	Present	Tel
Members / Alternates:		
Mr. Curt Dahl (LIPA), <b>Chairman</b> .....	<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 type="checkbox"/>
Mr. Gregory Chu (Con Edison), <b>Secretary</b> .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Syed Ahmed (National Grid).....	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Andrea Fossa (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 type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Mark Cordeiro (Municipal Power Agency).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Michael Mager (Couch White, LLP), <b>EC Chairman</b> .....	<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 checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>
Mr. Ed Schrom (NYPSC) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Glenn Haringa (GE Energy).....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Al Adamson (Consultant).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Frank Vitale (Consultant) .....	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Henry Chao (NYISO).....	<input 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 type="checkbox"/>	<input type="checkbox"/>
Ms. Donna Pratt (NYISO) .....	<input 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 type="checkbox"/>
Dr. Roy Shanker .....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Phil Fedora (NPCC).....	<input type="checkbox"/>	<input 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 type="checkbox"/>
Mr. John Dalwin.....	<input type="checkbox"/>	<input type="checkbox"/>

Mr. Richard Quimby..... .....

Mr. Randy Wyett (NYISO)..... .....

Mr. John Dowling (Luthin Associates)..... .....

Mr. Glenn Haake (Haake Energy Consulting LLC)..... .....

Mr. Matt Renninger (Energy Curtailment Specialist) ..... .....

**1. Major Announcement**

Chairman Curt Dahl (LIPA) has announced that he will be stepping down as the chair of the committee after 11 years. Robert Boyle (NYPA) will become the new New York State Reliability Council Installed Capacity Subcommittee Chairman effective May 2<sup>nd</sup>, 2012. Chairman Dahl has informed the Executive Committee at the last EC meeting of this transition.

In the closing remarks, Mr. Boyle expressed gratitude for the tremendous amount of work and dedication Chairman Dahl had put in with this committee. The ICS thanks Chairman Dahl for his invaluable contribution to the New York state power system reliability.

**2. Environmental Impact Assessment**

Peter Carney (NYISO) was on the conference call to discuss the various environmental regulations and their impact on this year’s IRM study.

NOx RACT (Reasonable Achieved Control Technology) is a regulation that will apply to all fossil plants, effective July 1, 2014. The NYISO expects about 28000 MW of capacity to be affected by the rule. Approximately 3 to 4000 MW of capacity will need to install additional equipment to comply. In New York City, this rule would reduce gas turbine outputs and increase boiler operation during contingency situations. The NYISO does not expect this rule to impact capacity retirement decision.

Chairman Dahl stated that this should be covered with a sensitivity study. Mr. Carney stated that there is some non-public information that may be needed to

determine the impact of NOx RACT. Mark Younger (Slater Consulting) asked if there was a particular type of generator that requested confidentiality. Mr. Carney stated that the confidentiality was requested from a diverse group of generators.

BART (Best Available Retrofit Technology) will affect 8200 MW of capacity. Mostly large oil/gas steamers built in the late 60's will be affected by the lower sulfur fuel requirement. Most of these large generators claimed business intelligence protection (confidentiality). Some small coal boilers will retire. The rule will not have reliability impact. Mr. Younger asked which boilers has the intention to retire, to which Mr. Carney replied that one small boiler from Syracuse and two units from Jamestown will retire. BART will be in effect by January 2014.

MACS (Mercury and Air Caustic Standards) will affect oil and coal units in New York, which is approximately 11-12,000 MW. Most plants will achieve the standards without much difficulty. The oil units will fall under a lightly regulated part of the rule. If the oil capacity factor is less than 8%, they can satisfy the requirements by a tune-up. Coal plants can satisfy this standard already. Scott Leuthauser (HQUS) was wondering how we can model this. Mr. Carney said that right now no unit exceed 8% oil capacity factor in the last two years. This rule will not have a reliability impact. Mr. Carney also said that there is an alternative method of compliance if the generator can keep water out of the bunker fuel.

Cross State Rule is an emission cap that New York can satisfy without reliability impact, even though the rule is currently under litigation.

Rule 316 (Best Technology Available) relates to either install a cooling tower or provide marine life protection, which specifically relates to Indian Point Power Plant case that the NYISO is currently looking at.

Chairman Dahl reiterated that the NYISO has not identified any regulation that has a reliability impact, to which Mr. Carney agreed. These will be looked at as sensitivity cases for possible inclusion in the next year's study.

### **3. Top-Down Demand Response Estimation White Paper**

Arthur Maniaci (NYISO) provided the paper via email. Mr. Maniaci stated that the paper discussed the strategies to conduct the estimation and the modeling method and results for July 21<sup>st</sup> and 22<sup>nd</sup>, 2011. They've included all the summer weekdays in all zones in the appendix as per request.

Mr. Younger had asked Mr. Maniaci to provide a detail discussion of the results at the next ICS meeting due to the length of the report and the time needed to fully review was not available. Mr. Maniaci is requesting comments from the members so he can address them at the next ICS meeting.

Mr. Younger stated that if base load participants that are SCRs were already running, they would have contributed no MWs when the call is in effect. He wondered if the estimation included adjustments due to these types of participants. Mr. Maniaci replied that this cannot be determined. However, the estimation can account for approximately 90% of the actual SCR values.

Al Adamson (NYSRC) wondered about the expected ICS action on this topic. Chairman Dahl believed that once ICS approve the methodology, the idea would be to use this method first to determine SCR values for the model since actual SCR data won't be available till January. Mr. Maniaci stated that it would be best to wait till September so all the peak data are captured. He also believes that the estimation can be completed by October.

### **4. Alternate Load Shape**

Mr. Maniaci stated that they've obtained PJM reconstituted load. He can now assemble the data to perform a MARS run using 2006 data on last year's model. The shape selection criteria will no longer be based on the most conservative, but rather on a typical year. Mr. Younger commented that 2006 wasn't the hottest year, where as in 2005 we had above average days almost every day in the

summer. Mr. Maniaci replied that peak producing conditions did not happen in 2005. He mentioned that there will be a quicker drop off in load duration curve when compared 2002 to 2006 load shape.

Mr. Younger would like to see Mr. Maniaci present each year's load relative to each year's weather adjusted peak. The concern here is that an unusually high spike in load will force MARS to adjust (depress) all the other load values within that year. Mr. Maniaci will try and present how many days/hours above/below average temperature.

Chairman Dahl asked if the re-aligned shape for a MARS run has been completed. Gregory Drake (NYISO) said the run, which lined up the top 3 days, is ongoing and the NYISO will provide results when available. Mr. Maniaci stated that ISO-NE loads still need to be reconstituted with DR values. He said that the results will be available at the next May ICS meeting.

Mr. Adamson asked if both a study scope and a white paper will be available by May. Mr. Drake said that is not achievable. Without the white paper, Mr. Adamson cautioned that this will not be included in this year's study. Mr. Younger stressed that the alignment correction on the last year study should be done first to see the impact. Chairman Dahl agreed but also stated that the documents are necessary in addition to the alignment results. Mr. Maniaci stated that the study scope will be available by May, but not the white paper. He seemed to recall that a white paper may not be needed. Chairman Dahl said that perhaps a "memo report" would suffice. Mr. Drake agreed that a document on selection criteria and work done to date will be provided at the next meeting.

Mr. Younger had suggested using an adjusted shape (adjusting several days) instead of an actual shape, where the adjustment would make the shape more representative of a typical shape to counteract MARS' treatment of all other loads within the shape.

Frank Vitale (NYSRC) asked about the average year determination criteria. Mr. Boyle said we'll need to see the actual shape data first before we can determine the "average year".

## 5. Topics Not Covered

The following topics were not covered during the call:

- NYSERDA wind project list
- Retirement Policy
- LCR determination

These topics will be covered at the May 2<sup>nd</sup> meeting.

Secretary: Gregory Chu

*(Con Edison)*

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Next meetings:

Meeting 135, Wednesday, May 2<sup>nd</sup> at NYISO HQ  
Meeting 136, Tuesday, May 29<sup>th</sup> at NYISO HQ  
Meeting 137, Wednesday, June 27<sup>th</sup> at NYISO HQ  
Meeting 138, Wednesday, August 1<sup>st</sup> at NYISO HQ  
Meeting 139, Wednesday, September 5<sup>th</sup> at NYISO HQ  
Meeting 140, Wednesday, October 3<sup>rd</sup> at NYISO HQ  
Meeting 141, Tuesday, October 30<sup>th</sup> at NYISO HQ  
Meeting 142, Tuesday, November 27<sup>th</sup> at NYISO HQ

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