

# NYSRC Installed Capacity Subcommittee

Meeting #154

**December 2nd, 2013**

**10:00 a.m. – 3:00 p.m.**

Meeting Minutes

## Attendees

	Present	Tel
Members / Alternates:		
Mr. Curt Dahl (LIPA), <b>EC Vice Chair</b> .....	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Yuri Fishman (LIPA) .....	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>
Mr. Gregory Chu (Con Edison), <b>Secretary</b> .....	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. Robert Boyle (NYPA), <b>ICS Chair</b> .....	<input checked="" type="checkbox"/>	<input 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 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:		
Ms. Erin Hogan (NYSERDA), <b>ICS Vice Chair</b> .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mr. John Adams (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- Mr. Peter Carney (NYISO) .....  .....
- 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. 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. Indian Point 2 and 3 Retirement Sensitivity**

Gregory Drake (NYISO) reported on the final result of the removing Indian Point 2 and 3 from the model as a sensitivity case. The LOLE of the system was 0.93 and it is almost 10 times above the acceptable reliability criteria.

**2. Monte Carlo Error Analysis**

Mr. Drake and Dr. Kai Jiang (NYISO) reported on the Monte Carlo error analysis on the range of possible IRM. The error analysis was of interest because the original reported version of the IRM range was actually a skewed distribution in the draft report. The concern the NYISO had was that the base case converged much faster (required less iterations) than in the past. The minimum amount of iterations came from a previous agreement that the case needs to be calculated with a minimum of 1000 iterations to be statistically significant. As a result, the NYISO went back and determined that if the case was determined by the standard error of 0.025 rather than 1000 iterations, an IRM of 16.9% (as opposed

to 17%) could be the center point of the 95% confidence interval. In fact, the 17% IRM model is the center of 95% confidence level at 1000 iterations and the standard error is 0.023, not 0.025 at the 1000th iteration.

Gregory Chu (Con Edison) asked about the 2 normal curves shown on the screen at the meeting, being that increasing number of iterations does not actually change the IRM itself, how did the NYISO determine the IRM without doing a separate run at each new IRM? He postulated that the 2 curves must be from separate runs since increasing number of iterations actually changes the LOLE output of the model. Dr. Jiang confirmed that it is indeed the case, where the 2 normally distributed curves illustrated the distribution of 2 distinct model runs for them to determine what the IRM would be. Dr. Jiang will be providing a brief write-up of the relationship between confidence interval and the NYISO's methodology to obtain the IRM range in a revised presentation at the next ICS meeting, per Vice Chair Erin Hogan (NYSERDA) request. **(AI 154-1)**

### **3. 2014 IRM Study Draft Report**

The members reviewed the final draft of the report prior to sending it to the Executive Committee. Both the appendices and the body were thoroughly reviewed and typos and edits were corrected at this meeting. ICS members approved this final version at the meeting and the clean version of this report will be heading to the EC for approval at their meeting on Friday, December 6<sup>th</sup>.

Secretary: Gregory Chu

*(Con Edison)*

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Next meetings:

Meeting 155, Monday, January 6<sup>th</sup> Teleconference Call

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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