

**Final Minutes**  
**New York State Reliability Council**  
**Installed Capacity Subcommittee**  
**Meeting #181 – March 2, 2016**  
**NYISO Corporate Center, Rensselaer NY**

**Attendees**

**Present    Phone**

**Members / Alternates:**

Rich Wright (CHG&E) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dmitriy Kiselev (Con Edison) .....	<input type="checkbox"/>	<input type="checkbox"/>
Howard Kosel (Con Edison) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sanderson Chery (Con Edison) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Khatune Zannat (PSEG LI) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mariann Wilczek(PSEG LI), <b>ICS Vice Chair/Secretary</b> .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Syed Ahmed (National Grid) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bart Franey (National Grid) .....	<input type="checkbox"/>	<input type="checkbox"/>
Richard Brophy (NYSEG-RGE) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
John Tigue (NYSEG-RGE) .....	<input type="checkbox"/>	<input type="checkbox"/>
Bob Boyle (NYPA), <b>ICS Chair</b> .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tim Lundin (NYPA) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mark Younger (Hudson Energy Economics, LLC – Wholesale Sellers) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mark Cordeiro (PLM, Inc – Municipals & Electric Coops) .....	<input type="checkbox"/>	<input type="checkbox"/>
Mike Mager (Couch White – Large Consumers) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Advisers/Non-member Participants:**

Al Adamson (Consultant) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
John Adams (Consultant) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Erin Hogan (UIU) .....	<input type="checkbox"/>	<input type="checkbox"/>
Kelvin Chu (GE) .....	<input type="checkbox"/>	<input type="checkbox"/>

Mark Walling (GE) .....	<input type="checkbox"/>	<input type="checkbox"/>
Wes Hall (GE) .....	<input type="checkbox"/>	<input type="checkbox"/>
Ricardo Galarza (PSM Consulting) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liam Baker (US PowerGen) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Scott Leuthauser (HQUS) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Kelli Joseph (NRG) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
James Scheiderich (ECS).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chris LaRoe (Brookfield Renewables) .....	<input type="checkbox"/>	<input type="checkbox"/>
Greg Drake (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frank Ciani (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dana Walters (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Josh Boles (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Steve Lemme (NYISO) .....	<input type="checkbox"/>	<input type="checkbox"/>
Kai Jiang (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill Lamanna (NYISO) .....	<input type="checkbox"/>	<input type="checkbox"/>
Carl Patka (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Brian Hodgdon (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vijaya Ganugula (NYISO) .....	<input type="checkbox"/>	<input type="checkbox"/>
Wes Yeomans (NYISO) .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
David Allen (NYISO).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alan Ackerman (CES).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Norman Mah (Con Edison Solutions).....	<input type="checkbox"/>	<input type="checkbox"/>
Matt Cinadr (E-Cubed) .....	<input type="checkbox"/>	<input type="checkbox"/>
Richard Gell (Ontario Power Generation).....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Matt Schwall (IPPNY) .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**1. Introduction and Requests for Additional Agenda Items**

Chairman Boyle called the NYSRC Installed Capacity Subcommittee meeting to order at 10:00 a.m. on March 2, 2016. There were no requests for additional items.

**2. Approval of Minutes for Meeting #180**

The meeting minutes were finalized with no edits.

### **3. Review of Action Items List**

The ICS reviewed the action item list.

NOTE: New action items were added as well as some of the existing action items were reorganized and renumbered as a result of the meeting to group compatible items together at the suggestion of Chairman Boyle.

**AI#170-8:** Mr. Drake reported on the total amount of MWs that were in the ELR (5600 MW) and CLR (3100 MW) categories. He noted the NYISO concluded that these programs have very little to no impact on the IRM. Mr. Younger continued to ask for the amount of MWs that would be limited to 2, 4, 6, or 8 hours of operation per day. Mr. Drake indicated there was less than 100 MWs of that were limited by eight hours or less of operation per day. It was agreed upon that the independent consultants would verify these values and the item could be closed at that point.

**AI#178-1:** Mr. Drake reported this involved the testing of the new functionality provided by GE. Discussion took place on what is currently done for wind units that do not have five years of historical data. Mr. Drake will provide the current methodology (**AI#181-3.1**).

**AI#180-3:** Mr. Younger raised a concern that significant transmission constraints in New Jersey could impact the amount of emergency assistance that could be available from PJM and asked the NYISO to assess the deliverability (**AI#181-2.1**).

### **4. Status of Studies, Scopes and White Papers for 2017 IRM Study**

#### **4.1. Acceptable Levels of Emergency Assistance from External Control Areas**

Chairman Boyle asked for an update on the progress of the scope from operations as this item was an input to several other items. Mr. Yeomans discussed the difficulty in analyzing the data, as there were many ways to look at it. He noted there had been several internal discussions to date. Mr. Younger asked for the NYISO to present their ideas to the group so that there can be comments prior to seeing one number for emergency assistance. Mr. Walters noted that the difficulty is to come up with a rule based on existing conditions that would apply to future varying conditions. Mr. Yeomans will provide to Chairman Boyle a determination of what can and what cannot be provided for the March 29<sup>th</sup> ICS meeting (**New AI#181-1.1, was AI#179-1**).

#### **4.2. PJM Minimum LOLE Value**

Mr. Adams discussed the scope of the review, including the documents and studies that will be reviewed. He noted the review will be complete for the May 4<sup>th</sup> ICS meeting (**AI#181-1.2, was AI#180-4**).

#### **4.3. External Control Area Modeling**

Chairman Boyle discussed the testing outline of the “All in IRM Method” (AI#181-1.3) which he proposed at the last ICS meeting. Mr. Younger also discussed his proposal “Whitepaper on Modeling of Externals/Emergency Supplies”, dated January 29, 2016 and posted with the March 2 ICS meeting material, which outlined the problem and suggested potential steps. Chairman Boyle indicated that Mr. Younger’s suggestions would be considered in the scope of Item 4.1 above. He also noted that the “All in IRM Method” would not be in this year’s IRM but part of a sensitivity case. In order to keep track of the main studies, related assignments and completion dates, Chairman Boyle assigned Mr. Adamson to develop a matrix to track these items (AI#181-4).

#### **4.4. PJM Multi-Bubble Model Evaluation**

Mr. Drake reviewed the scope for testing a four versus five bubble model. He proposed four cases to test outside of the normal process testing. Discussion from the group resulted in changes to the scope that Mr. Drake will revise and send to the group (AI#181-2.2.1).

#### **4.5. Multiple Year Wind Model-MARS Testing & Study Results**

Mr. Drake presented the wind shape scope of work to be performed on introducing multiple wind shapes into the GE-MARS model and verifying that the feature performs as expected (AI#181-3.2, was AI#178-1). Discussion centered on what is currently done for wind units with less than five years of historical data. The ICS requested that Mr. Drake return with a discussion on the current methodology. (AI#181-3.1).

#### **4.6. SCR Model – Proposed 2017 Study Assumptions**

Mr. Ganugula was not available for the discussion. Mr. Boles noted that he has been working with Mr. Ganugula on the study. He will present the analysis and proposal at the March 29<sup>th</sup> meeting. (AI#178-2)

#### **4.7. Load Shape Selection and Analysis**

Chairman Boyle requested this item be removed from the list. It will continue on the action item list (AI#161-5) with a completion date after June.

#### **4.8. Special Sensitivity Case Procedural Change (Policy 5 Change)**

Chairman Boyle indicated this will have a May due date. (AI#180-5)

#### **4.9. Retirements (Policy 5 Change)**

Mr. Walters noted that the NYISO will return on March 29<sup>th</sup> to discuss the revisions. (AI#180-2)

### **5. 2017 IRM Study Assumptions Matrix**

Mr. Drake discussed the updates to the matrix from the last ICS meeting. He noted there are open areas (primarily the attachments) that will be filled in once the Gold Book data is released. Discussion centered on long term firm capacity sales as well as Forward Capacity Market (FCM) sales. Mr. Younger and Ms. Joseph encouraged the NYISO to use the same assumptions for all the reliability studies so that market signals are aligned with the studies. Mr. Walters noted that there are different time frames amongst these studies as well as different types of analyses. Mr. Patka noted that ultimately the reliability council will decide the assumptions. Mr. Ahmed noted that we are performing a reliability study and not a market study. Chairman Boyle noted that a FCM Task Force was formed to explore FCM sales and provide recommendations for the amount of FCM to be used in future IRM studies. Chairman Boyle asked Mr. Younger to chair the task force (AI#181-8). Mr. Drake noted that Mr. Peter Carney of the NYISO will be providing an environmental initiatives presentation (AI#181-7). Ms. Joseph asked for a matrix of how various assumptions can impact the model (AI#181-6). Discussion centered on the status of IESO and participation in the capacity market. Mr. Drake indicated currently the tie with Ontario is being modeled as full tie benefits which may need to be changed if there are import rights with Ontario in the fall. Chairman Boyle asked Mr. Boles to provide an update to the IESO MOU status at the March 29<sup>th</sup> meeting (AI#181-9).

## **6. Status Reports:**

### **6.1. External Control Area MOUs**

Mr. Yeomans discussed the status of the MOU. He noted that conversations have been taking place with PJM and ISO-NE on taking the MOU principles and developing a Joint Operating Agreement (JOA). The discussions have centered on seams issues, operational protocols, planning assumptions, and deliverability of external capacity sales. There will be a continuation of these discussions. The NYISO also plans to solicit stakeholder and ICS feedback prior to drafting the JOA. IESO discussions are separate as of now but they will eventually become part of the agreement as well as the HQ control area. Any updates will be reported to this group.

### **6.2. NYISO LCR Task Force**

Mr. Allen noted that the NYISO had tentatively planned a meeting for March 24<sup>th</sup> after a scheduled ICAP WG meeting. The NYISO is in discussions with GE for a scope of work.

## 7. Additional Agenda Items

Mr. Younger discussed an alternative method to the current GE method for shifting capacity for use in the sensitivity cases. He will provide a write-up for the March 29<sup>th</sup> meeting (**AI#181-10**).

*Secretary: Mariann Wilczek (PSEG LI)*

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### Upcoming meetings:

Meeting 182, Tuesday, March 29<sup>th</sup> at NYISO Corporate Center

Meeting 183, Wednesday, May 4<sup>th</sup> at NYISO Corporate Center

Meeting 184, Wednesday, June 1<sup>st</sup> at NYISO Corporate Center

Meeting 185, Wednesday, June 29<sup>th</sup> at NYISO Corporate Center

Meeting 186, Wednesday, August 3<sup>rd</sup> at NYISO Corporate Center

Meeting 187, Tuesday, August 30<sup>th</sup> at NYISO Corporate Center

Meeting 188, Wednesday, October 5<sup>th</sup> at NYISO Corporate Center

Meeting 189, Wednesday, November 2<sup>nd</sup> at NYISO Corporate Center

Meeting 190, Monday, November 28<sup>th</sup> at NYISO Corporate Center