

**Final Minutes**  
**New York State Reliability Council, L.L.C. (NYSRC)**  
**Executive Committee**  
**Meeting No. 172 – August 9, 2013**  
**Albany Country Club, Voorheesville, NY**

**Members and Alternates**  
**in Attendance:**

Mayer Sasson	Consolidated Edison Co. of N.Y. – Member – Chair
Curt Dahl	LIPA – Member – Vice Chair
George Loehr	Unaffiliated Member
William H. Clagett	Unaffiliated Member
Bruce Ellsworth	Unaffiliated Member
Richard J. Bolbrock, P.E.	Municipal & Electric Cooperative Sector – Member
Scott Leuthauser	HQ US - Alternate - Phone
Mike Mager, Esq.	Couch White, LLP (Large Customers’ Sector) – Member
Peter Altenburger	National Grid, USA – Member
Tom Duffy	Central Hudson Gas & Electric – Member
George Smith	Unaffiliated Member
Chris LaRoe	Independent Power Producers of New York (IPPNY) - Member
Larry Hochberg	New York Power Authority – Alternate - Phone

**Others:**

Al Adamson	Consultant & Treasurer
Paul Gioia, Esq.	Counsel
Roger Clayton	Electric Power Resources, LLC – RRS/RCMS Chair
Henry Chao	New York Independent System Operator (NYISO)
Chris Sharp, Esq.	New York Independent System Operator (NYISO)
Wes Yeomans	New York Independent System Operator (NYISO)*
Edward Schrom	NYS Department of Public Service
Don Raymond	Executive Secretary
Carl Patka	New York Independent System Operator (NYISO)
Bob Boyle	New York Power Authority – ICS Chair

**Visitors – Open Session:**

Herb Schrayshuen	Power Advisors, LLC - Phone
Phil Fedora	Northeast Power Coordinating Council (NPCC)
Andrea Fossa	New York Power Authority
Rick Brophy	New York State Electric & Gas/RG&E - Phone
Mark Younger	Hudson Energy Economics, LLC*
Chris Wentlent	Constellation - Phone

“\*” Denotes part-time

**Agenda Items – (Item # from Meeting Agenda)**

- I. **Executive Session** – An Executive Session was not requested.
  
- II. **Open Session**
  - 1.0 **Introduction** – Chairman Sasson called the NYSRC Executive Committee (Committee) Meeting No.172 to order at 9:30 A.M. on August 9, 2013 at the Albany Country Club, Voorheesville, NY.
  - 1.1 **Meeting Attendees** – All Members and/or Alternate Members (or representatives) of the NYSRC Executive Committee were in attendance.
  - 1.2 **Visitors** – See Attendee List, page 1.
  - 1.3 **Requests for Additional Agenda Items** – None
  - 1.4 **Declarations of “Conflict of Interest”** – None
  - 1.5 **Executive Session Topics** – None
  - 2.0 **Meeting Minutes/Action Items**
    - 2.1 **Approval of Minutes for Meeting No. 171 (July 12, 2013)** – Mr. Raymond introduced the revised draft minutes which included all comments received to date. Additional clarification was provided by Dr. Sasson. Following further discussion, Mr. Smith moved for approval of the draft minutes contingent upon inclusion of Dr. Sasson’s comments. The motion was seconded by Mr. Loehr and unanimously approved by the Executive Committee – (13 to 0). The Executive Secretary will post the minutes on the NYSRC website – **AI #172-1.**
    - 2.2 **Action Items List** – The Committee reviewed the Outstanding Action Items list and accepted removal of the following items:

<u>Action Item #</u>	<u>Comments</u>
167-5	Mr. Smith indicated that NYSERDA is the preferred source for DSWG funding.
171-4	Mr. Raymond distributed Mr. Carney’s presentation on July 10, 2013.
171-5	Preceded by AI #170-5.

- 3.0 **Organizational Issues**
  - 3.1 **NYSRC Treasurer’s Report**
    - i. **Summary of Receipts & Disbursements** - Mr. Adamson provided the Summary of Receipts and Disbursements which showed a balance of \$109,000 at the end of July 2013. There are no budget items projected to exceed budget at year end. The Summary indicates receipt of three payments in July 2013 toward the 3<sup>rd</sup> Quarter Call-For-Funds of \$25,000 per TO. However, a fourth payment was received in July 2013 via the electronic payment option without notification to Mr. Adamson. This will require a formal re-issuance of the July 2013 Summary of Receipts and Disbursements – **AI #172-2.**  
Again, Mr. Adamson reminded the TOs using the electronic payment option that he must receive an email from them shortly after each payment indicating the date and amount of the payment – **AI #169-2.** Also, he noted that in the case of automatic electronic payments, a single signed letter

to him indicating the date and amount of the automatic payments would suffice.

### 3.2 Other Organizational Issues -

- i. **Proposed Meeting Schedule** – Mr. Bolbrock raised the possibility of having all the Executive Committee meetings scheduled on Thursday of each month (vs. generally on Fridays). Following discussion, the Executive Committee decided that a vote will be taken at its September 12, 2013 meeting – **AI #172-3**.

### 4.0 Installed Capacity Subcommittee (ICS) Status Report/Issues

#### 4.1 ICS Chairman's Report – Mr. Boyle reported that ICS met on June 30, 2013 and held a conference call on August 8, 2013.

He indicated that Mr. Younger had suggested a sensitivity case involving a probabilistic analysis of the impact of outage rates for overhead transmission lines. The impetus is to verify that neglecting overhead transmission outage rates does not significantly impact IRM Study results. Mr. Younger noted that the NERC Transmission Data Availability System (TADS) appears to show that lines over 200kV with outages in excess of 15 minutes had outage rates of about 0.5%. While this percent is relatively low, individual transmission line outage rates could significantly reduce transfer capability. For example, the Chateaugay interface with HQ has experienced a 1.1% average outage rate over the last three years. Mr. Chao reminded the Executive Committee that the model already considers transmission outages through emergency transfer limits under n-1 contingencies. Further, he stated that it is not clear how the transmission outage rates should be represented in the model without a good statistical performance data base for the New York transmission systems. One-time events like Chateaugay may not happen every year, and it is not clear if that event should be used to represent the transmission performance over a certain period of time, for example a 10 year average. Additionally, he suggested that consideration should be given to the number of times emergency transfer limits have been invoked due to transmission system conditions (i.e. zero) when modeling these outage events. Mr. Dahl offered that downstate already models cable outage rates due to the long outage duration of the cable system. There is no up-to-date data available for upstate transmission outage rates. Mr. Chao concluded that this issue requires more study before making a major change to the IRM study methodology. Messrs. Adamson and Clayton noted that the transmission system forced outage issues were thoroughly studied by recognized industry experts for years, and were found to have negligible impact on the resource adequacy. However, they agreed that the issue needs further research. Dr. Sasson concurred that further investigation by ICS is appropriate and suggested a white paper may be necessary in the future.

The Executive Committee agreed to eliminate "Represent transmission forced outage rates for certain interfaces" from the list of sensitivity cases for the 2014 IRM study, and recommended that the ICS continue exploring the issue.

Mr. Boyle briefly discussed the additional items below:

- a. Base Case Assumption Matrix for 202014-15
  - (a) Retirements decreased from 164Mw to 94Mw.
  - (b) 50Mws both downstate and upstate of summer maintenance will be added.
  - (c) No new wind projects are scheduled.
  - (d) Solar capacity will be increased to 44Mws from 31.5Mws
  - (e) Long term firm sales will decrease by 4Mws to 279Mws.

#### b. Parametric Studies

The NYISO and ICS will hold two conference calls before the next scheduled ICS meeting to assist the NYISO in getting back on schedule. The NYISO assured ICS that during the second meeting on August 16, 2013 all scheduled and opened items will be resolved.

#### c. Status of Initial Quality Assurance Reviews

NYISO provided General Electric with a partially completed model. Assuming that NYISO provides the full model by August 16, 2013, General Electric indicated that it could review the MARS model

by August 22, 2013. Results are expected for review at ICS's next regularly scheduled meeting. The transmission owners requested the masked data from the August 16, 2013 model be provided at the same time as the model is delivered to GE. Mr. Chao agreed.

d. EFORd Methodology Review Status

Con Ed has received the final list of EFORd's.

e. List of Proposed Sensitivity Cases

- (a) NYCA isolated
- (b) No internal NYCA transmission constraints
- (c) No load forecast uncertainty
- (d) No wind capacity
- (e) No SCRs and EDRP
- (f) Higher Outside World reserve margins
- (g) Lower Outside World reserve margins
- (h) Retire Indian Point Units 2 and 3 (following Policy 5 modeling procedures)
- (i) Retirement scenario – units that may have submitted mothball notices
- (j) SCR scenario – 5 calls max/month

Mr. Bolbrock questioned the need to once again run a loss of Indian Pt. Units 1 & 2 sensitivity case. Instead he suggested using past results for the final IRM Report. Others felt the retirement of Danskammer could change the past results and the timing is questionable given the on-going Indian Pt. shutdown litigation. The Executive Committee decided to maintain Indian Pt. on the sensitivity list, but at low priority.

## 5.0 Reliability Rules Subcommittee Status Report/Issue

5.1 **RRS Status Report & Discussion Issues** – Mr. Clayton reported that the joint RRS/RCMS meeting was held on August 1, 2013. Two separate meetings were held, each with its own agenda and minutes. Mr. Clayton introduced the List of Potential Reliability Rule Changes and reported that PRR #97, BPS Facilities; B-R6 & B-M4 is being retired due to the proposed changes being addressed elsewhere. A new PRR #117 to clarify the process for publication of NYS BPS facilities is being investigated. He presented a draft for PRR #116, System Restoration G-M1 & LRR, which addresses the identification of Black Start Resources needed for an effective System Restoration Plan (SRP), and the associated template. In summary, if a black start capable resource is not in ConEd's Black Start Program but could provide a material benefit to restoration, then under PRR #116 the resource will be designated to become a black start resource facility in order to improve black start performance. If the resource declines to be a black start generator, it may request an exemption. If the exemption is denied by the NYISO, the resource will become a black start resource. LIPA was excluded from this latest PRR #116 draft at their request. This exclusion was based upon no demonstrated need and the ability of LIPA to call on additional resources, if required, through established contracts with generators in its service territory.

Mr. Clayton indicated that a meeting was held during lunch including Dr. Sasson, Ms. Whitaker (NYISO), Messrs. Adamson, Gioia and himself. He reported that all remaining issues were resolved and summarized the significant changes for the Executive Committee. He acknowledged that they had not received final review by the RRS/RCMS. Given the extensive discussions of the PRR by the Executive Committee over the last several months, Mr. Clagett moved for the "approval to post" contingent upon no substantial comments being received by Friday, August 16, 2013. The motion was seconded by Mr. Bolbrock and unanimously approved by the Executive Committee – (13 to 0). Mr. Clayton will provide the revised proposed rule to the Executive Committee, NYISO, Mr. Gioia and RRS/RCMS by Monday, August 12, 2013 – **AI #172-4**.

## 5.2 Status of New/Revised Reliability Rules

### i. Proposed NYSRC Reliability Rules Revision

**a. List of Potential Reliability Rules (“PRR”) Changes**

**b. Status of New/Modified Reliability Rules**

**1. PRRs for EC Final Approval**

- None

**2. PRRs for EC Approval to Post -**

- None

**3. PRRs for EC Discussion**

- None

**5.3 NPCC/NERC Standard Tracking**

**i. NERC Standards Development** – Nothing new to report.

**ii. NPCC Standards** – Nothing new to report.

**5.4 Other RRS Issues**

**i. Rules Enhancement Plan (REP)** – See Section 5.1.

**ii. NYSDEC Meeting** – Mr. Clayton reported that the next regular meeting with the NYSDEC is scheduled for August 15, 2013.

**6.0 Reliability Compliance Monitoring Subcommittee (RCMS) Report/Issues**

**6.1 RCMS Status Report & Discussion Issues** – Mr. Clayton reported that RCMS met on August 1, 2013 following the RRS meeting.

**6.2 2013 New York Reliability Compliance Program** – Mr. Clayton indicated that RCMS found the NYISO to be in full compliance for the following Measurements:

(a) B-M4, List of NYS Bulk Power System Facilities,

(b) F-M4, TO Load Shedding Capability,

(c) F-M6, Voltage Reduction Testing,

(d) H-M1, System Protection Criteria Compliance Documentation,

(e) H-M2, Maintenance Criteria for BPS Protection Compliance Documentation, and

(f) H-M3, Procedures for Monitoring Compliance with Maintenance Criteria for BPS Protection Requirements

**6.3 Other RCMS Issues** – Nothing additional to report.

**7.0 Key Reliability Issues**

**7.1 Defensive Strategies** – Mr. Smith reported that a Defensive Strategies Working Group (DSWG) meeting was held on August 8, 2013. Mani V. Venkatasubraman, faculty member at Washington State University, was able to attend and add his expertise to the brainstorming session.

The meeting included a brief overview of the New York State PMU installations provided by Peter Lemme (NYISO). All 62 PMUs are now integrated at the NYISO Control Center. Work remains regarding the volume and accuracy of the data and how best to present the information to the system operators. Mr. Venkatasubraman indicated that Washington State has done a great deal of work on the “operator interface”. Mr. Yeomans expressed interest in how the PMU data is being used in the western systems including operator procedures, software and displays. The NYISO is working closely with PJM and the ISO-NE to obtain similar information from its neighbors. PMU data hardening is also a major consideration.

In preparation for the brainstorming session, Messrs. Smith and Depugh (NYISO) reviewed the results of the Controlled System Separation Study (CSSS). There was a significant interchange of ideas between Mr. Venkatasubraman and the representative (Jiaxin Ning) from EnerNex. Two brainstorming sessions were held during the meeting: (a) a free flow of ideas for mitigating the impact of disturbances on the NY system and (b) categorizing the ideas. Mr. Smith is working on a scope of work based on these and prior ideas from the CSSS.

Also, Mr. Smith is working with the NYISO on a proposal to NYSERDA for funding due August 14, 2013. EnerNex will be the prime contractor with the NYISO and NYSRC (Messrs. Smith and Loehr) providing advisory resources should the proposal receive an award. The Executive Committee requested an opportunity to review the proposal before it is released. The proposal will be circulated by Mr. Smith and an email vote will be held before the August 14, 2013 due date for the proposal – **AI #172-5**.

## **8.0 State/NPCC/Federal Energy Activities**

**8.1 NPCC Board of Directors** – Mr. Forte provided information on NERC’s proposed “Version 5 Critical Infrastructure Protection Transition Study”.

**8.2 NPCC Report** – Mr. Fedora updated the Executive Committee on the latest BES Phase 2 developments. The IT “tool” will undergo user acceptance testing during the week of August 21, 2013. This is to incorporate some of the later sections of the Rules of Procedure (RoP) which were not a priority when the start date was July 1, 2013. These later sections of the RoP involve the design of the “tool” to accommodate the NERC portion of exception requests and field reporting requirements. These features are on schedule for completion September 1, 2013.

There was a meeting of the Standard Drafting Team (SDT) in the last week of July 2013 to address the comments on the first posting of the revised BES Definition. Based on the comments, a new posting of the revised Definition was issued which increased the bottom threshold value for the E1 exceptions for radials from 30kV to up to 50kV including technical justification. Also, the I4 exclusion for distributed generation was restored to include only the 75Mw collection point to the BES system. The revised BES Definition posting was made on August 6, 2013 with a 30 comment period.

There will be a webinar on August 21, 2013 to respond to questions. The SDT will meet on September 24 & 25, 2013 via WebEx for, hopefully, an approval vote on the revised BES Definition.

Next week is the 10<sup>th</sup> anniversary of the 2003 Blackout. NPCC has posted a fact sheet on its web site indicating what NPCC has accomplished in response to the “lessons learned”.

## **9.0 State/Federal Energy Activities**

**9.1 CARIS** – The NYISO has completed its analysis of historic (2008-2012) and projected (2013-2022) congestion and presented the results to ESPWG, including the identification of congested elements, the three selected studies and generic solutions, and a review of the impacts of various scenarios. The three selected studies for the 2013 CARIS 1 analysis are: New Scotland-Pleasant Valley, Central-East, and New Scotland-Pleasant Valley-Central East.

At the August ESPWG meeting, the NYISO will be presenting cost estimates, as well as the primary and additional CARIS metrics, including Benefit/Cost ratios, for each of the identified Solutions. In addition, the NYISO will be working with ESPWG to review the initial draft Report and associated Appendices. The NYISO has also committed to work with the ESPWG and NYSRC on studying the use of a Tan 45 analysis in calculating the CARIS 1 ICAP metric. The NYISO is presently drafting a proposed work plan for review with ESPWG.

**9.2 Order 1000** – The FERC Order 1000 interregional compliance filing was submitted by the NYISO on July 10, 2013. On April 18, 2013 FERC “conditionally accepted” the NYISO regional compliance filing. Numerous conditions of the FERC Order required the NYISO to select the more efficient or cost effective transmission solutions in the reliability and public policy planning processes. The NYISO is holding frequent meetings with stakeholders to discuss the compliance issues. FERC has granted a filing extension to October 15, 2013.

## **9.3 Interregional Transmission Studies**

**i. EIPC Study** – Phase II will continue with the Gas-Electric System Interface Study. A draft baseline assessment of the existing system will be completed by December 20, 2013. An evaluation of the capability of the gas system to satisfy the needs of the electric system will be in draft form by March 28, 2014. The identification of gas-side contingencies that could impact electric reliability will

be in draft form by September 12, 2014. A draft review of dual fuel capability is expected on May 5, 2014. The final draft report is scheduled for March 10, 2015.

**9.4 Other Studies/Activities** – Nothing additional to report.

**10.0 Other Items**

**10.1 Heat Wave: July 15–19, 2013** – Mr. Yeomans gave a presentation titled, Summer Operations: July 15-19, 2013 Heat Wave. The heat wave extended across the entire Eastern Interconnection for six consecutive days characterized by high temperatures and humidity. On Friday, July 19, 2013 the NYISO set a new all-time peak load of 33,956Mws for the hour beginning at 16:00. All operating criteria was met during the week of July 15-19, 2013. Western NY 230kV system constraints caused by the mothballing of 445Mws at Dunkirk reduced operating flexibility regarding Niagara Project’s ability to respond to NYISO reserve activations and the ability to import either emergency purchases or economic energy from IESO when the Niagara Project was at or near its full operating capability.

The July 18-19, 2013 load profile exceeded 33,000Mws for over six hours, which exceeds the 4 hour minimum performance requirement of Energy Limited and Demand Response Resources. Demand Response at the new peak load was about 1,070Mws. New York State agencies activated curtailment of internal, non-essential use as did some utilities. Also, some utilities issued public appeals throughout the week.

By Thursday (July18), 47 of 50 States were predicting temperatures above 90°F. The NYISO participated in daily regional conference calls including all NPCC Members and PJM and MISO. SARS were activated for large contingencies in adjacent areas as was Demand Response. Generation performance was excellent with all available generation in operation from July 17-19, 2013.

No transmission lines were out of service for maintenance and all 765kV and 345kV facilities remained in-serve for the entire week. Forced outages did occur on Huntley-Elm St. 230kV, Niagara 230kV/115kV TB#1, and the Sugarloaf-Rock Tavern 115kV. Bulk power system voltage performance was strong throughout the heat wave. The New York State Smart Grid Project which, among other contributions, added 822 Mvars to the system over last few years, appears to have been very helpful.

**10.2 NYISO Operations Report** – Mr. Yeomans provided the NYISO Operations Report for July 2013.

The peak load occurred on Friday, July 19, 2013 at 33,956Mws; a new all time summer peak.

There were no Major Emergencies declared during the month. Alert states were declared on 21 occasions; 2 times for system frequency. There were no TLR Level 3s declared. On July 3, 2013, a RPU/SAR was initiated by the loss of Indian Pt#2 loaded at 1018Mws. ACE crossed zero and the RPU and SAR were terminated within 7 and 30 minutes, respectively. On the same day, a RPU was initiated for loss of HQ imports and a SAR was initiated by ISONE for the loss of 1500Mws from HQ. Ace crossed zero and the RPU was terminated after 7 minutes.

On July 17, 2013, a RPU/SAR was initiated for loss of Bayonne loaded at 400Mws and a loss of Linden Co. Gen. at 274Mws. ACE crossed zero and the RPU was terminated after 5 minutes and the SAR was terminated after 12 minutes.

**10.3 North American Energy Standard Board (NAESB)** – Mr. Ellsworth noted that the NAESB Bulletin for June 2013 had been distributed.

**11.0 Visitors’ Comments** – None

**12.0 Meeting Schedule**

<u>Mtg. No.</u>	<u>Date</u>	<u>Location</u>	<u>Time</u>
#173	Sept 12, 2013	Albany Country Club, Voorheesville, NY	9:30 A.M.
#174	Oct 10, 2013	Albany Country Club, Voorheesville, NY	9:30 A.M.

The open session of Committee Meeting No.172 was adjourned at 2:30 PM.