

**Final Minutes**  
**New York State Reliability Council, L.L.C. (NYSRC)**  
**Executive Committee**  
**Meeting No. 160 – August 10, 2012**  
**Albany Country Club, Voorheesville, NY**

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

Mike Mager, Esq.	Couch White, LLP (Large Customers' Sector) – Member - Chair
Curt Dahl, P.E.	LIPA - Alternate
George Loehr	Unaffiliated Member
Bruce Ellsworth	Unaffiliated Member
William H. Clagett	Unaffiliated Member
Richard J. Bolbrock, P.E.	Municipal & Electric Cooperative Sector – Member
George Smith	Unaffiliated Member
Mayer Sasson	Consolidated Edison Co. of N.Y. – Member – Vice Chair
Arnie Schuff	New York Power Authority – Member
Joe Hippius	National Grid, USA – Member
Tom Duffy	Central Hudson Gas & Electric – Member - Phone
Paul DeCotis	LIPA – Member
Patti Caletka	New York State Electric & Gas/Rochester Gas & Electric – Rep. - Phone

**Others:**

Paul Gioia, Esq.	Counsel
Kathy Whitaker	New York Independent System Operator (NYISO)*
Roger Clayton	Electric Power Resources, LLC – RRS/RCMS Chairman
Henry Chao	New York Independent System Operator (NYISO)
Wes Yeomans	New York Independent System Operator (NYISO)*
John Adams	New York Independent System Operator (NYISO)
Carl Patka, Esq.	New York Independent System Operator (NYISO)
Kristin Bluvas, Esq.	New York Independent System Operator (NYISO)
Edward Schrom	NYS Department of Public Service
Don Raymond	Executive Secretary
Bob Boyle	New York Power Authority – ICS Chairman
Emilie Nelsen	New York Independent System Operator (NYISO)*

**Visitors – Open Session:**

Phil Fedora	Northeast Power Coordinating Council (NPCC)
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“\*” Denotes part-time

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

- I. **Executive Session** – An Executive Session was held to discuss the FERC Black Start Settlement Conference and coordination with the NYISO.
  
- II. **Open Session**
  - 1.0 **Introduction** – Chairman Mager called the NYSRC Executive Committee (Committee) Meeting No.160 to order at 9:30 A.M. on August 10, 2012 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** – See item I above.
  - 2.0 **Meeting Minutes/Action Items**
    - 2.1 **Approval of Minutes for Meeting No. 159 (July 13, 2012)** – Mr. Raymond introduced the revised draft minutes which included all comments received to date. Messrs. Adams and Clayton offered clarifying comments. Following further discussion, Mr. Smith moved for approval of the draft minutes contingent upon the inclusion of Messrs. Adams and Clayton’s comments. The motion was seconded by Dr. Sasson and unanimously approved by the Executive Committee Members – (13 to 0). The Executive Secretary will post the minutes on the NYSRC website – **AI #160-1**.
    - 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>
154-5	The election took place at the July 13, 2012 Executive Committee meeting.
158-2	Nominations were sent to Mr. Gioia by July 9, 2012.
158-4	The Load Shape report was provided at the July 13, 2012 Executive Committee meeting.
158-5	The EFORD Modeling report was provided at the July 13, 2012 Executive Committee meeting.

- 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 \$122,000 at the end of July 2012. The projected budget variance is \$61,000 below the budget for the 2012. Mr. Mager requested that any questions be directed to Mr. Adamson once he becomes available on August 17, 2012.
  - 3.2 **Other Organizational Issues**
    - i. **2013 Meeting Schedule** – Mr. Loehr presented the “Suggested 2013 Meeting Schedule”. The schedule indicates the second Friday of each month with the exception of Thursday March 7 and Thursday September 12. Also, in keeping with normal practice, the December meeting will be held December 6, 2012, the first Friday of the month. Following discussion the Executive Committee agreed with the suggested meeting dates.

## **4.0 Key Reliability Issues**

**4.1 Defensive Strategies** – Mr. Smith reported that a WebEx on the Controlled System Separation Study (CSSS) was held by the NYISO on August 2, 2012. Tasks 1 through 4 are essentially complete including the development of separation indicators and protective schemes. Initial results have been provided on separation timing with additional work in progress in this area. The likely separation interfaces caused by extreme disturbances were reviewed. These are the interfaces where if nothing is done, transmission protection relays will trip under extreme contingencies.

The various separation indicators derivable from PMU information were reviewed. These include various functions of angle and angle rate. Suggested thresholds for each of the indicators were provided in terms of system states in terms of normal, warning, abnormal and emergency. Mr. Smith noted that these states are not to be confused with traditional operating states of the NYCA but do relate to the potential need to initiate a separation.

Results for the extreme contingency cases under two heavy interface loadings were presented. Separation timing is the focus with coordination with UFLS. Partial success is achieved with one interface loading but not the other. Coordination with the UFLS program is included in the analysis. More work is planned in this area.

Mr. Smith indicated that he had initiated a discussion of the application of Out of Step Protection whose application is suggested by the IEEE Power System Protection Committee (attended by Jim Ingleson). At present, this type of protection is not applied in the NYCA on transmission lines. Study Group members asked if simulation of this protection can be looked at further as it will influence how the system separates in the future. It was noted that this is beyond the existing scope of the CSSS.

Further results were presented for faults in the PJM system. A fault of extremely unrealistic duration at a PJM terminal on the 500 kV line to Ramapo failed to cause stability problems in the NYCA. A separation in the Midwest similar to that of the 2003 blackout also did not cause any instability in the NYCA. Mr. Smith suggested that the system conditions involving generation and load were significantly different than those of the blackout. He provided an early blackout report to enable further exploration. In addition, disturbances in Ontario and New England will be investigated.

The next steps include: (a) Updating task 2,3&5 reports, (b) Finishing a draft of the Task 5 report, (c) Running light load cases, (d) Completing sensitivity studies, (e) Preparing the 2<sup>nd</sup> workshop (possibly Sept 6 or 13, 2012 depending on conference room availability) and (f) performing External Disturbance analyses.

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

**5.1 NPCC Board Meeting** – Mr. Forte provided a written summary of the August 7, 2012 Board of Directors meeting. At the meeting the Board approved policy input to the August 15, 2012 NERC Representatives Committee meeting and the August 16, 2012 NERC Board of Trustees meeting. He indicated that NERC publishes statistics associated with compliance violations of NERC Standards. These statistics provide information regarding new compliance violations that were identified during the current month, as well as updates to previous violations that remain in the compliance process. Highlights from the June 2012 violation statistics include: (a) the number of new violations was 149 in June 2012 versus 194 and 145 in May and April, respectively, (b) 71 Find, Fix, Track (FFT) minor violations and 71 Notices of Penalty (NOPs) were filed with FERC in June 2012, and (c) the 6 month average violations from January-June 2012 was 257 violations per month.

Mr. Forte summarized points from the NERC July 11, 2012 webinar on the Compliance Enforcement Initiative including the following:

- The one year report from NERC to FERC is due March 23, 1013,
- FFTs will now publicly identify the entity (except for CIP related FFTs),
- FERC will randomly sample FFTs to verify that the process is functioning properly,
- Since the September 2011 filing, NPCC has filed 25 NOPs, 0 full NOPs and 46 FFTs, and

- NERC would like feedback on the FFT process.

**5.2 NPCC Report** – Mr. Fedora reported that on August 16, 2012 the DOE is holding a webinar to explain the 2012 National Electric Transmission Congestion Study. Also on August 16, 2012 NERC has scheduled a webinar on their investigation of protection system misoperation, reporting and trends. FERC has scheduled a regional technical conference on August 20, 2012 at Logan Airport in Boston, MA on gas/electric interdependency as a result of concerns expressed by ISO-NE in its Strategic Planning Initiative.

Mr. Patka indicated that the next meeting of the NYISO Gas-Electric Coordination Working Group will be after the FERC regional technical conferences are completed. The Working Group will be participating in FERC’s Mid Atlantic region technical conference on August 30, 2012 in Washington, DC. An RFP has been issued by the Working Group to perform a comprehensive gas-electric coordination study.

**5.2i. BES Definition** – Mr. Clayton reminded the Executive Committee that he was requested to prepare a statement that could be sent to NPCC for consideration regarding NPCC’s response to FERC’s request for comments on its NOPR. The issue is whether the cranking path, which is currently excluded from the BES Definition, represents a “reliability gap”. The fact that some cranking paths may be classified as local distribution facilities is problematic since under the statutory directives concerning which facilities can be defined as BES, these cranking paths are excluded. The statement, developed with the assistance of Mr. Duffy is shown below:

“Black Start facilities, including cranking paths, are critical to maintaining BES reliability under system restoration conditions. They should be classified as BES facilities and be subject to the NERC standards. This conflict needs to be remedied. The issue of facilities typically classified as local distribution but deemed critical to the reliability of the BES is not new. It has been widely recognized that Under Frequency and Under Voltage Load Shedding Schemes installed on lower voltage distribution systems are critical to maintaining BES reliability and are therefore addressed in regional BES reliability requirements. The same should hold true for NERC requirements with respect to cranking paths.

It is suggested that the following cranking paths be included as BES facilities independent of voltage level:

- (a) Cranking paths internal to generating facilities between internal GTs and the power generator.
- (b) Cranking paths that use dedicated distribution facilities.”

Mr. Dahl expressed the view that in terms of a “reliability gap”, the cranking paths referred to above that are critical to reliability are or will be covered with the implementation of the 100kV BES Definition under the EOP Restoration Plan. The Executive Committee asked that Messrs. Dahl and Clayton try to work out the issue outside the meeting – **AI #160-2**. Mr. Gioia requested that Mr. Dahl circulate his viewpoint – **AI #160-3**. Mr. Fedora pointed out that NPCC’s comment will reflect the consensus of all NPCC members. He stated that currently NPCC does not support the expansion of the BES to automatically capture lower voltage cranking paths. If necessary, these cranking paths can be added through the Exceptions Process.

**5.3 Black Start – FERC Settlement Conference** – Discussed in Executive Session. Afterwards, Messrs. Mager and Gioia expressed the Executive Committee’s concern that the NYISO is moving ahead with Tariff changes that are inconsistent with the Reliability Rules before vetting the changes with the NYSRC. Mr. Gioia asked Mr. Patka to convey to the NYISO Board that the sequencing of events that the NYISO has followed pertaining to the Black Start Tariff changes are not appropriate and that the NYISO came to the NYSRC after it had made a determination to start the stakeholder process and attain Board approval for an effective date that may precede the approval of necessary changes to the

Reliability Rules. The NYSRC would like a statement from the Board that acknowledges the sequencing error and provides assurance that it will not happen again in the future.

## **6.0 Installed Capacity Subcommittee Status Report/Issues**

### **6.1 ICS Chairman's Report** – Mr. Boyle summarized the major topics from the August 1, 2012 ICS meeting as shown below:

#### **(a) New MARS Version Incorporating Multiple Load Shapes**

GE presented its new feature that allows the user to assign probability weighting of up to 10 different load shapes. The new load shape featured in the MARS software may do away with the load forecast uncertainty (LFU) case, as the changes in load patterns will be statistically modeled in the software (user defined probabilities of a load shapes). The LFU cases could be used to focus on changes in the state's economic condition. No sensitivity was adopted for the new feature. Mr. Chao noted that more testing is required which could delay adoption of the model. Mr. Mager emphasized the importance of continuing to work with the model to gain experience.

#### **(b) Status and Plan for Additional APA/EFORd Model Analysis/Testing**

Mr. Drake presented graphs illustrating the difference between the APA/EFORd methodology and the EFORd used in market analysis for each power plant in the MARS database (should be all known generation). Units were grouped according for size from 0 -50 Mw, 51-150 Mw and 151+ Mw. The grouped units were analyzed for their standard deviations with the results below:

0-50 MW,  $\sigma = 3.4\%$

51-150 MW,  $\sigma = 2.7\%$

151+ MW,  $\sigma = 2.6\%$

Mr. Chao noted that the standard deviations were quite small.

#### **(c) Preliminary List of Sensitivity Cases**

Mr. Boyle provided a list of 20 sensitivity cases for Executive Committee approval. However, at the request of Mr. Chao, the Executive Committee agreed to reduce the number of cases due to the manpower and computer intensiveness of the sensitivity cases. Following discussion, Mr. Loehr moved for removal of the following cases from the list: (i) No EDRPs, (ii) Alternate SCR performance calculation, and (iii) HTP beginning operation on October 1, 2013 instead of June 1, 2012. Also, included in the motion was the delay (but completion) of the Multiple Load Shape MARS Model sensitivity case beyond the IRM decision deadline, if necessary. The motion was seconded by Dr. Sasson and unanimously approved by the Executive Committee – (13 to 0).

Mr. Boyle indicated that on a tentative basis the parametric analysis implies an IRM of 15.9% and LCRs of 83% and 101 in NYC and on Long Island, respectively.

## **7.0 Reliability Rules Subcommittee Status Report/Issue**

### **7.1 RRS Status Report & Discussion Issues** – Mr. Clayton reported that the joint RRS/RCMS meeting was held on August 2, 2012. Two separate meetings were held, each with its own agenda and minutes. There was one new addition to the List of Potential Reliability Rules – Outstanding, PRR #112, System Restoration G-M1, G-M3.

### **7.2 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** – Mr. Clayton introduced PRR #112, System Restoration G-M1, G-M3, as the procedural means for implementing a change should the NYISO black start testing proposal be accepted. Ms. Whitaker and Mr. Clayton agreed to address the timing issue regarding the NYISO submittal to FERC and completion of the NYSRC review process – **AI #160-4**. Mr. Clayton reviewed the proposed changes to section Wording of Proposed Rule Change of the PRR #112 noting the break down by unit types under G-M3.

Also, disadvantages were included under the Rationale for Proposed Rule Changes section of the PRR. However, it is noted that on balance, the advantages of the rule changes outweigh the disadvantages. The Measurements section of the PRR remains to be completed. The Implementation section will include “the requirement that a comprehensive test is required if one has not been successfully completed within the last two years,” Finally, the Comments section includes “during black start tests of steam units, the ability of gas turbine units to control frequency and voltage while isolated from the transmission system shall be verified.” Mr. Clayton noted a ConEd document, Steam Unit Gas Turbine Blackstart Test Scope, which describes the need to verify frequency and voltage control during testing.

## 7.3 NPCC/NERC Standard Tracking

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

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

## 7.4 Other RRS Issues

i. **Black Start – NYISO Tariff Status** - Mr. Clayton discussed the NYISO black start white paper titled, NYISO Description and Justification for Black Start Unit Testing Changes dated August 2012, presented to RRS at its August 2, 2012 meeting. The NYISO is proposing that the current comprehensive black start testing procedures for steam turbine units be revised such that the comprehensive test is performed every three years. The comprehensive test requires synchronization to the transmission system and requires that the unit is firm and operating at minimum load in no more than eight hours.

Under the revised proposal the Steam turbine units are required to perform a test each year. If a steam turbine unit has completed a successful comprehensive test within the last two years, it will be eligible to perform an intervening year test. This intervening year’s test requires:

- isolating the steam turbine unit from the transmission system
- establishing a cranking path between the steam turbine unit and an isolated black start gas turbine unit
- energizing the steam turbine unit’s internal light and power bus with the gas turbine unit
- adding auxiliary loads (e.g., boiler feed pump, fans) that would be required to introduce fire into the boiler
- demonstrating ten minutes of steady operation of the loaded internal light and power bus.

The intervening year’s test does not require fire in the boiler or synchronization to the transmission system. It must be completed within four hours.

The justification for the revision offered by the NYISO includes: (a) a reduction in the additional “wear and tear” on steam turbine units’ boilers that are already 40-55 years in age thereby improving equipment reliability, (b) NPCC and NERC do not require annual testing, and (c) NERC, after thorough review and comment by industry representatives, has found no reliability concerns with testing black start units every three years. Therefore, the NYISO concludes there is

no technical justification or reliability need for an annual, comprehensive test of steam units to demonstrate black start capability based on NERC and NPCC's test requirements.

Mr. Clayton noted that the plant load that is not tested during the intervening year's test is tested to an extent during normal start-up. The ability of the GT's to pickup the incremental remaining load is not tested. Representative data for steam turbine units in the Con Edison Restoration Plan indicate that auxiliary loads for the intervening year's test range from about 33 percent to 46 percent of the demonstrated capacity of gas turbine units used to energize the internal light and power bus, and steady state auxiliary loads for the comprehensive test range from about 60 to 66 percent of the demonstrated capacity of gas turbine units used to energize the internal light and power bus. Transient loads up to about 92 percent of the demonstrated capacity were seen. This additional information is encouraging since the GTs do not reach full load. Also, gas turbine unit trips during past black start testing occurred early in the start-up sequence and would be detected in intervening year tests.

The NYISO's proposed testing procedure will not permit a steam turbine unit to perform an intervening year's test if it has not successfully completed a comprehensive test within the last two years.

Mr. Mager asked whether TC Ravenswood would join the ConEd Restoration Plan if the NYISO black start testing proposal was accepted. Mr. Gioia responded that TC Ravenswood voted against the proposal at the NYISO Management Committee, and he knows of no instance in which TC Ravenswood has publicly stated its acceptance of the NYISO proposal. Mr. Yeomans indicated that the proposal will go forward regardless of the actions taken by TC Ravenswood. Mr. Yeomans confirmed that based on its evaluation, the NYISO has not found any adverse reliability impacts from the revised steam turbine unit testing procedures as proposed. The NYISO has determined that these procedures will provide assurance that the units needed for safe, orderly and prompt system restoration will be available to perform when called upon. Mr. Clayton noted that RRS is not prepared to offer a recommendation at this meeting, but the discussion at RRS appeared to favor acceptance – **AI #160-5**.

Mr. Mager asked whether ConEd could state its position. Mr. Sasson responded that ConEd would prefer the current testing protocol. However, ConEd recognizes the effort by the NYISO to get TC Ravenswood back into the ConEd Restoration Plan and voted in favor of the NYISO proposal, on balance, considering other improvements in the NYISO proposal. Among the other improvements are: (a) verification of the operation of the governor and exciter controls, (b) documentation of any deficiencies during testing, and (c) the provision of a mitigation plan for any deficiencies noted. Also, capability period DMNC testing will verify the capability of the GTs. Mr. Gioia suggested that it would be helpful to the Executive Committee to hear whether ConEd believes that the NYISO black start testing proposal provides an adequate level of reliability to assure prompt system restoration and the availability of the black start units to perform when called upon. Mr. Sasson responded "yes" that this is ConEd's belief when it is coupled in the NYISO Tariff proposal with the additional features noted above.

RRS is scheduled to request posting of PRR #112 at the September 14, 2012 Executive Committee meeting.

- ii. **Request to Rescind Con Ed Exception 14** – Mr. Clayton reminded the Executive Committee that at the last Executive Committee meeting, Dr. Sasson gave a presentation on Con Ed's request to rescind Exception 14 from the Exceptions to the NYSRC Reliability Rules. RRS discussed the request with NYISO input and recommends acceptance.

However per Policy 1, i.e, receipt of comments from the Operating Committee, acceptance would need to be on a contingency basis. Dr. Sasson indicated that the request was presented at SOAS last week. There was unanimous consensus to send the request to the Operating Committee on

August 16, 2012. The Executive Committee will vote on the request at its September 14, 2012 meeting. Mr. Gioia agreed to prepare a draft letter to the NYISO and ConEd indicating the Executive Committee's decision and the reasons for it – **AI #160-6**. Mr. Clayton added that RRS has begun reviewing all the existing Exceptions with particular attention to Exceptions that are out of date or single contingencies that result in the exceeding of STE ratings.

## **8.0 Reliability Compliance Monitoring Subcommittee (RCMS) Report/Issues**

**8.1 RCMS Status Report & Discussion Issues** – Mr. Clayton indicated that RCMS met following the RRS meeting.

**8.2 2012 New York Reliability Compliance Program** – Mr. Clayton indicated that at its August 2, 2012 meeting RCMS found the following Measurements to be in full compliance:

- (a) F-M4, TO load shedding capability; and
- (b) F-M6, Voltage reduction testing.

**8.3 Other RCMS Issues** – Mr. Clayton noted that a non-compliance waiver letter was sent to the NYISO Vice-President of Operations stating the Executive Committee's findings and conclusions regarding the failure of TC Ravenswood to fulfill its black start testing requirements before April 30, 2012.

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

**9.1 NYISO 2011 Comprehensive Reliability Planning Process (CRPP)** – Mr. Adams reported that the preparation for the CARIS 2 studies began upon completion of the CARIS 1 Report. An Assumption Matrix is being developed for updating and extending the CARIS database. A final draft of the 2012 RNA was distributed on August 1, 2012 with the results of the transmission security analysis and the resource adequacy analysis. Results of the scenario analyses included Indian Point Plant Retirement, High Loads, Low Loads, Coal Plant (all) retirements, and Zones at Risk. Reliability Needs and compensatory MW were identified. The complete final draft is expected to be sent to the OC for the August 16, 2012 meeting.

The 2012 Load and Capacity Report (Gold Book) was completed and released on April 27, 2012. It can be found on the NYISO web site at [http://www.nyiso.com/public/webdocs/services/planning/planning\\_data\\_reference\\_documents/2012\\_GoldBook.pdf](http://www.nyiso.com/public/webdocs/services/planning/planning_data_reference_documents/2012_GoldBook.pdf).

## **9.2 Interregional Transmission Studies**

**i. EIPC Study** – The final Phase I report is posted at [http://eipconline.com/Resource\\_Library.html/](http://eipconline.com/Resource_Library.html/). The three final scenarios selected were: (a) national carbon constraint with increased energy efficiency/demand response/distributed generation, (b) regionally implemented national RPS, and (c) “business as usual”.

The Phase II schedule is posted at [http://eipconline.com/Phase\\_II\\_Resources.html/](http://eipconline.com/Phase_II_Resources.html/). The three future resource scenarios are being evaluated with fully developed transmission build-out options that meet reliability requirements (Tasks 7 & 8). The reliability review (Task 8) of Scenarios 1 & 3 is nearly complete. Transmission options are being developed for Task 2. The results and draft map of constraints and transmission build-outs are posted at [http://eipconline.com/PhaseII\\_Modeling\\_Results.html](http://eipconline.com/PhaseII_Modeling_Results.html). Production cost analyses will be performed for each scenario based upon the power flow modeling and transmission expansion options developed under Tasks 7 & 8 (Task 9). The analysis is scheduled to begin in July 2012. High-level estimates of the capital costs of the interregional generation resources and transmission expansion options will be developed (Task 10). A Phase II report is scheduled for completion by the end of December 2012.

The Transmission Options Task Force (TOTF) is a forum for stakeholders to review and comment on the development of transmission build-out alternatives during Phase II

<http://eipconline.com/TOTF.html>). A WebEx is scheduled for August 2, 2012 to report final reliability results.

The Modeling Working Group (MWG), a forum for stakeholder review of inputs to the production cost analysis, has been meeting twice a week via WebEx to prepare CRA, EIPC's consultant, to start production cost analyses in August 2012.

- ii. **IPSAC Study** – Mr. Adams indicated that a WebEx/teleconference was held on June 22, 2012 which focused on FERC Order 1000 compliance including Northeast protocol revisions, response to stakeholder comments and interregional transmission cost allocation. An additional WebEx/teleconference is scheduled for August 27, 2012 to discuss the scope of work for the 2012 NCSP and next steps, an interregional gas study update and an environmental regulations update.

### 9.3 Other Studies/Activities – Nothing additional to report.

### 10.0 Other Items

**10.1 NYISO Operations Report** – For July 2012, the peak load occurred on Tuesday July 21, 2012 at 32,439Mws versus the all time summer peak of 33,939Mws on August 2, 2006. Alert states were declared on 14 occasions; 1 for system frequency. Storm Alerts were declared 8 times during the month for a total of 49 hours. There was 1 TLR declared during the month for a total of 3 hours.

Ms. Nelsen (NYISO Director of Operation) gave a presentation, Heat Wave Operations July 17-18, 2012. The presentation showed graphs of: (a) Summer Peak Loads and Demand Response – 2006 to 2012, (b) Daily Peaks and Demand Response – July 15 to July 21, 2012, and (c) Daily Actual, Daily Actual without Demand Response and Day-Ahead Forecast curves for July 17 and July 18, 2012.

For the peak day (July 17), operating conditions included:

#### Transmission Operation

- (a) PJM Neptune HVdc Interconnection forced out

#### Generation Operations

- (a) Approximately 600Mws of NYCA capacity was unavailable for operation on peak
- (b) NYISO activated SRE of Oswego 6 for NYCA 30-minute reserves.
- (c) Average wind generation was 840Mws from HB6 – HB18.

#### Demand Response Operations

- (a) EDRP/SCR resources were activated in Zone B from HB14 through HB18 for forecast reserve shortages to maintain Rochester 345/115kV transformer loadings.
- (b) ConEd activated TDRP for J3 Vernon/Greenwood from HB18 – HB22.

**10.2 North American Energy Standard Board (NAESB)** – Nothing new to report.

**10.3 NYSERDA T&D Study** – Mr. Loehr reported that the last meeting of the Energy Planning Board was canceled because “the T&D Study is still being worked on.” The next meeting of the Energy Planning Board is scheduled for August 23, 2012, and the T&D Report is due September 1, 2012.

**11.0 Visitors' Comments** – None

### 12.0 Meeting Schedule

<u>Mtg. No.</u>	<u>Date</u>	<u>Location</u>	<u>Time</u>
#161	Sept 14, 2012	Albany Country Club, Voorheesville, NY.	9:30 A.M.
#162	Oct. 12, 2012	Albany Country Club, Voorheesville, NY.	9:30 A.M.

The open session of Committee Meeting No.160 was adjourned at 3:00 P.M.

