

NYISO Business Issues Committee Meeting

October 25, 2001

New York State Nurses Association
11 Cornell Road
Latham, NY 12110

Draft MINUTES OF THE MEETING

I Welcome & Meeting Objectives

Mr. Garry Brown, Chairperson of the Business Issues Committee (BIC), called the meeting to order at 9:40 AM and welcomed the members of the Business Issues Committee. The attendees introduced themselves and the companies that they represent.

II Approval of the Minutes

The revised August 23, 2001 meeting minutes and the September 27, 2001 meeting minutes were approved and will be posted to the NYISO web site.

Motion #1:

Motion to approve the Minutes from the August 23, 2001 and September 27, 2001 Meetings.
(Motion passed unanimously by a show of hands)

III Chairperson's Report

There was no Chairperson's Report presented at this meeting.

IV Market Operations Update

Mr. Charles King of NYISO announced that the BIC meeting was being supported by real-time web casting to enable telephone participants to view presentation materials as they are presented at the meeting. He also informed the BIC that the NYISO had issued a press release and report addressing the Mirant Northeast RTO Study and that the information was available on the NYISO web site.

Mr. King advised the BIC that the NYISO Market Monitoring Plan (MMP) calls for a periodic physical audit of generators. The audits are scheduled to begin in December (2001) and one to two generators per month will be audited. The NYISO is contracting out the audit work. Addressing the recent NYISO power failure, Mr. King commented that the issue had been discussed at the October 24th (2001) Operating Committee meeting and he offered to address

questions on the topic. There were no questions on the topic.

Responding to a request from a Market Participant, Mr. King asked the BIC if there was interest in changing the way that Day-Ahead Market (DAM) results are posted. Mr. King explained that currently, DAM results are posted when they are ready, and that the actual posting time varies. The request was for the NYISO to post the results at the same time every day. A brief discussion indicated that it was the preference of the BIC members that the DAM results be posted as soon as they are ready. Mr. Brown recommended that the Scheduling & Pricing Working Group (S&PWG) address the issue.

In response to a question concerning the NYISO's intention to conduct a study on the impact that a single Northeast RTO would have on the Market, Mr. King responded that a thorough study could not be conducted with data that is publicly available but that the NYISO was pursuing the issue. ~~Ms. Doreen Saia, representing Mirant, asked if the NYISO was working with the other ISOs on such a study. Mr. King responded that they are currently proceeding alone but have made the offer to the other ISOs. He recognized that they need data that is confidential to the individual ISOs. In response to Ms. Saia's request, Mr. King agreed to report back to BIC at the next meeting on the status of the NYISO's discussions with the other ISOs.~~ ~~Ms. Doreen Saia, representing Mirant, asked if the NYISO was working with the other ISO's on such a study and Mr. King responded that they are but that much of the data is confidential to the individual ISOs. Ms. Saia requested that the NYISO keep the BIC advised on the progress of the study.~~

Mr. James Scheiderich of Select Energy requested that the NYISO assemble historical information on Available Transfer Capability (ATC) at the NYISO control area interfaces. He added that he would request the same of ISO-New England. Mr. King asked Mr. Scheiderich to define his request in more detail in an email.

Reporting on the progress of the Open Scheduling System (OSS), Dr. Walter Pfuntner of the NYISO, reviewed the project timeline and reported that all milestones to date have been completed on time and that the OSS Phase I "go live" date was January 29, 2002. He described the Phase I tasks remaining and added that Phase II would be deployed in February or March (2002).

Dr. Pfuntner explained that the OSS used an open nodal architecture and discussed the functionality of the system. He reported that the OSS would provide the ability to enter both internal and cross-ISO bilaterals and support pre-scheduling of ramp and transmission ahead of DAM scheduling. Dr. Pfuntner explained several functionality features of the OSS that address bidding, pre-scheduling and inter-ISO communication. He also addressed user interface modifications and future features including E-Tag 1.7 integration.

In response to a question about OSS funding support from other ISOs, Dr. Pfuntner replied that no agreement on the matter had been reached yet.

Dr. Pfuntner announced that the Northeast Power Coordinating Council (NPCC) was sponsoring an OSS users group under the CO-10 Technology/Tools Working Group. Mr. John Simonelli of ISO-New England chairs the group and the first meeting is scheduled for November 8th, 2001 and

will be held in Montreal. The OSS User's Group web page is:
http://www.npcc.org/Oss_users_group.asp.

Dr. James Savitt of the NYISO reported that CPS-2 was up slightly in September and added that September prices were lower than August levels. He attributed to the reduction to reduced load and lower fuel prices. Dr. Savitt also pointed out that prices for the first and second quarters of 2001 were lower than 2000 prices.

Dr. Savitt reported that regulation prices increased in September due to a reduced number of units offering regulation. In response to a question concerning the reason for the reduced participation in regulation bidding, Dr. Savitt replied that it was possibly due to units down for maintenance and that he was aware of some units that did not offer regulation for technical reasons.

In a review of LBMPs in various NYCA zones, Dr. Savitt indicated that Real-Time prices were, on average, higher than DAM prices, reversing previous trends. He also reported that hours reserved and hours corrected are down and added that in September only 0.11% of hours were corrected and that, through September, there were 183 days without corrections.

In response to a question from Mr. Brown concerning the magnitude of corrections, Dr. Savitt replied that he would investigate and report on the topic.

Mr. Mark Younger of Slater Consulting requested that BME prices be added to the Market Operations report because it would serve as a measure of uplift expense. Dr. Savitt replied that he would investigate how to display that information.

In response to a question from Mr. Glenn Haake of IPPNY concerning the schedule for meetings related to improvements to the Automated Mitigation Procedure (AMP), Dr. Savitt replied that the meeting schedule was dependent upon NYISO development of a "strawman" and added that the first meeting might be scheduled around November 12th (2001).

V Election of Vice-Chairperson

Mr. Brown briefly reviewed the election rules for the BIC Vice-Chairperson position and announced that the candidates were Mr. James Parmelee of LIPA and Mr. Joseph Holtman of Mirant New York. Mr. Aaron Breidenbaugh of Navigant Consulting pointed out that, depending upon the outcome of the BIC election, the three NYISO Committees could all be chaired by representatives of the Generator Sector. Mr. Brown responded that the Committee By-laws permitted that situation.

Following a secret ballot vote Mr. Brown announced that Mr. Holtman had received 52.85% and Mr. Parmelee had received 47.15% of the votes. Since neither candidate received the required 58% majority Mr. Brown informed the BIC that another vote was required. The second vote resulted in a 66.06% majority in favor of Mr. Holtman.

VI Voltage Support Service payment Proposal

Mr. Ken Davis, representing NYISO, presented a proposal calling for a single \$/MVAR rate for Voltage Support Service. Mr. Davis reviewed the current method for determining Rate Schedule 2 payments and explained that the Voltage Support Service (VSS) Task Force was trying to develop a means to pay suppliers that would remove administrative issues, be acceptable to the FERC, and keep compensation levels in line with past costs.

Mr. Davis described the rate calculation methodology and informed the BIC that the 2002 rate would be \$3919/MVAR and that the rate would be paid to suppliers based upon their documented MVAR capacity. He explained that provisions of the plan allowed for a supplier of reactive power that was backed down from a schedule for voltage support purposes to be compensated for lost opportunity costs. Mr. Davis also noted that a supplier of reactive power that is called upon and fails to respond to a directive is subject to a performance failure penalty assessment.

Mr. Davis reviewed the proposed motion and advised the BIC that the proposal was an interim solution and that the VSS Task Force would continue to evaluate alternatives and report their recommendations to the MSWG and the BIC by September 2002.

Mr. Brown advised the BIC that the Motion would also require Management Committee approval.

Motion #2:

Motion to approve the Voltage Support Service Proposal Items 1 – 5

1. For the Year 2002, instead of the annual capability payments provided for in Rate Schedule 2 of the Services Tariff, a single rate of \$3919 per MVAR shall be offered to all eligible and qualified suppliers of Voltage Support Service.
2. Voltage Support Service supplier capability payments currently being made for 2001 shall remain unchanged and continue for the remainder of the year.
3. NYISO shall make the appropriate filings at FERC needed to amend Rate Schedule 2 of the Services Tariff to implement the 2002 capability payment rate of \$3919 per MVAR, and to ratify the capability payments made prior to 2002.
4. All other existing components of Rate Schedule 2 of the Services Tariff, such as components dealing with supplier testing, lost opportunity cost and penalties for performance failures shall remain unchanged and in effect for the year 2002.
5. For 2003 and beyond, the NYISO staff shall work with the Voltage Support Service Task Force and continue to evaluate alternatives that might be used to provide for the needed supply of Voltage Support Service, identifying established best practices, and report the results of their evaluations and their recommendations, to the Market Structures Working Group and this Committee by September 2002.

(Motion passed unanimously by a show of hands with one abstention)

VII NYSEG Motion to restructure the mission and work objectives of the BAWG

Mr. Rick Mancini of NYSEG introduced a proposal to restructure the objectives of the Billing and Accounting Working Group (BAWG) and explained that Market Participants are still experiencing significant difficulties with the NYISO's billing procedures, billing software, and lack of responsiveness to billing concerns. Mr. Mancini summarized several areas of concern that included billing adjustments up to two years after issuance of the original bill, invoices based upon state estimation, and a lack of billing detail and explanations of significant charges. He then presented a list of recommendations based upon the formation of an interdisciplinary team of NYISO staff working with the BAWG. Under provisions of the proposal, the NYISO Team would work with the BAWG to resolve billing problems within 60 days. The NYISO Team and the BAWG would meet at least once a month to identify billing problems; jointly develop solutions to the problems; fully test procedure and software changes as required; and coordinate and implement the solutions with the various NYISO disciplines. The BAWG and NYISO Team will also meet with the Project Prioritization Team (PPT) as necessary to ensure that the appropriate NYISO staff is assigned to resolving billing issues.

NYSEG Motion

THEREFORE, NYSEG moves that the Business Issues Committee approve the following recommendations:

- 1) That the NYISO form an interdisciplinary team ("Team") that assumes responsibility and accountability for billing problems identified by NYISO staff and the Billing and Accounting Working Group ("BAWG"). The Team will be comprised of NYISO staff from (a) the Operations department; (b) the Market Monitoring Unit; (c) the Billing and Accounting department; and (d) any other department that the NYISO believes must work with BAWG so that market participants can receive accurate and complete billing information and explanations. The Team must work with the BAWG to identify and resolve billing problems.
- 2) That BAWG and the Team make a cooperative presentation to the Business Issues Committee every three months. The presentation will include a summary of the highest priority billing problems identified, status of developing and implementing solutions, and a description of any administrative impasses or other issues that are delaying activities.
- 3) That BAWG maintain a list of billing problems and coordinate with the Team to resolve each problem within 60 days of the date the problem is communicated to the Team. BAWG and the Team will meet at least once a month to:
 - a) identify billing problems;
 - b) jointly develop solutions to the listed problems;
 - c) where the solution involves a change to billing procedures or software, fully test the change to ensure that it does not cause unintended results; and
 - d) coordinate and implement the solution with NYISO Operations, Market Monitoring, and Accounting and Billing staff so that everyone that may be affected is aware of the solution and their responsibilities in implementing the solution.

4) That BAWG and the Team meet with the Project Prioritization Team, as necessary, to ensure that sufficient NYISO staff resources are assigned to resolving billing issues.

5) That the list of billing problems begin with the following items:

a) Improve billing statements by itemizing charges in sufficient detail such that market participants can reconcile and audit bills;

Mr. Brown commented that the BAWG currently reports to the BIC on about a quarterly basis and added that a BAWG report could become a regular report similar to the S&PWG and MSWG reports. He also stated that billing issues do have a high priority with the Project Prioritization Team (PPT).

Mr. Stephen Wemple, the BIC Vice-Chairperson, suggested that the issues could be addressed without the creation of an additional bureaucracy. Mr. Mancini replied that BAWG should be afforded the same access to NYISO staff as the other Working Groups. Mr. Brown added that some of the issues addressed in the proposal were market issues and not billing issues. Mr. Jim Scheiderich of Select Energy stated that the BAWG had been effective at resolving certain issues and suggested that some of the issues defined may be better addressed at the Schedule & Pricing Working Group.

Some Market Participants expressed concerns about certain provisions of the proposal that called for the use of data that may be classified as confidential. Mr. Ray Kinney of NYSEG replied that those concerns could be accommodated by the proposal.

Following an extensive discussion on the proposal, and at the request of the BIC Chair, Mr. Mancini withdrew the motion with the understanding that the motion would be reviewed at the next BAWG meeting with input from NYISO Staff. Based on the results of the BAWG meeting a revised motion will be submitted at the next BIC meeting. Mr. Mancini requested that the appropriate NYISO staff be made available for the BAWG meeting.

VIII Day-Ahead margin payment for generators moved down in Real-Time from their DAM schedule by the ISO for OOM

Mr. John Hickey of NYISO presented a proposal addressing margin preservation for units scheduled out-of-merit (OOM). Mr. Hickey explained that units can be moved out of economic order in response to a reliability issue and, in some cases, are scheduled OOM at a level that is less than their Day-Ahead schedule. The result is that the Real-Time settlement paid to the supplier may be less than the margin that was guaranteed day-ahead and the supplier cannot control the Hour-Ahead schedule through the bid process.

Mr. Hickey recommended Tariff changes to ensure that whenever a supplier cannot meet its DAM energy obligation because it is directed by the NYISO to operate OOM, the supplier will be reimbursed to ensure that its Day-Ahead margin will be met. He further recommended that the resulting uplift be charged to the local TO or statewide loads as appropriate depending on the nature of the reliability concern.

Mr. Mark Younger, of Slater Consulting, expressed concern about costs that may not be adequately covered by the proposal and suggested that the Discretionary Action Committee could address such issues.

Mr. Mike Cadwalader of LECG questioned the amount of money involved and explained that, had the constraints been modeled in the Day-Ahead Market, the schedule would have been consistent with the Real-Time schedule and no loss would occur. Mr. Ray Kinney, of NYSEG, added a friendly amendment to a motion presented by Mr. Younger requiring the NYISO to incorporate persistent constraints into the system models.

Motion #3:

Motion to accept the Proposal regarding Day Ahead Margin Payment for Generators moved down in Real Time from their DAM Schedule through an Out of Merit call, as presented to the Business Issues Committee on October 25, 2001, and direct the ISO staff to work with the Scheduling and Pricing WG to develop Tariff language for Management Committee consideration.

The ISO will monitor and report on a regular basis and in a manner that maintains confidentiality on the frequency, duration, nature, and economic impact of these events; and propose methods to incorporate any persistent constraints into the ISO's DAM, BME and RT system models.

(Motion passed by a majority show of hands with 1 opposed and three abstentions)

IX Status report on TCC and ICAP auctions

In a report on the status of Transmission Congestion Contracts (TCCs) for transmission expansion Mr. Arthur Desell of NYISO advised the BIC that LECG had identified a number of issues with the proposed process for the award of short-term TCCs, but added that most of the issues had been resolved. He reported that software contractor PCA had developed specifications for handling TCCs and TCC options in the auction process and that PCA estimates that it will take 14 months to develop, test and document the process.

In a discussion with Market Participants concerning point-to-point TCC options, Mr. Desell explained that if options were allowed for any point on the system to any other point on the system, the computations would become very complex. He added that, if the number of point-to-point options could be reduced to about 20, then the possibility of moving forward is greatly enhanced. He also reported that LECG is pursuing a way to handle the award of long-term options such that they are factored into the auction.

Addressing the Multi-Period TCC Auction, Mr. Desell reported that the NYISO has been testing the code for several months and some unexpected results have been observed. He explained that Mr. Scott Harvey of LECG was working with NYISO staff to determine if there is a problem with the results. He added that NYISO staff is scheduled to begin development work on the TCC Auction bid and post software in January 2002 with an expected completion in June of 2002. In response to a question concerning the schedule Mr. Desell replied that the schedule was a function of NYISO IT priorities.

In a brief report on the ICAP Timeline, Mr. Desell reported that the date changes were made to eliminate weekend and holiday period dates. A group discussion determined that it was not necessary for the BIC to approve revisions to Attachment A of the ICAP manual. The NYISO will advise Market Participants of necessary date changes in the future.

X Status report on Virtual Bidding Testing

Mr. Richard Mills of the NYISO reported that several Virtual Bidding market impact tests had been performed to test market sensitivity to a variety of Virtual Bidding scenarios. The purpose of the tests was to ensure that SCUC would solve correctly under a variety of extreme conditions. An additional test, designed by the NYISO MMU, looked for potential gaming issues and possible unexpected outcomes caused by seemingly unrelated actions. Mr. Mills explained that no surprises or anomalous market responses were encountered. He also advised the BIC that the FERC had approved the Virtual Bidding Tariff language on ~~October~~November 24th, 2001 and that the FERC had ruled that the proposed collateral requirements should be reduced. The NYISO will comply with the ruling by November 1, 2001.

XI Status report on BME/SCD pricing issues

Discussion deferred to the next BIC meeting.

XII Working Group Updates

Scheduling and Pricing Working Group (S&PWG)

Mr. Kinney reported that there has been a debate within the S&PWG on how to proceed towards resolving BME/SCD pricing issues and that there is a difference of opinion among Market Participants. He also reported that there may be a one month delay in addressing the ConEd 138kV load pocket issue with respect to OOM unit operation. Mr. Savitt commented that the NYISO would present a strawman proposal at the next S&PWG meeting and added that NYISO MMU and IT staff are already addressing the issue. Ms Doreen Saia, representing Mirant, suggested that the NYISO MMU and Operations Department work together to address issues below the 138kV load pocket. Mr. Savitt replied that they would.

Market Structure Working Group (MSWG)

In a review of MSWG activities, Mr. Scheiderich reported that TCC Allocation, TCC Auction Methodology, and Virtual Bidding test results were on the BIC agenda for that day and that those issues were still active within the MSWG. He added that the MSWG also needs to address long-term BME/SCD pricing issues.

Mr. Scheiderich advised the BIC of his intention to develop a proposal to shift the control area boundary between NYISO and ISO-New England to the Northfield Mountain bus. He explained that the boundary shift would allow participants to readily take reserves in an out of the markets

based on demand pricing. Mr. Scheiderich added that there are similar things that may be done with Hydro-Quebec and between Ontario Power-Gen and NYPA. The MSWG will discuss the proposal at a future meeting and Mr. Scheiderich said that Select Energy plans to submit a similar proposal to ISO-New England.

Mr. Scheiderich briefly addressed the work of the Congestion Reduction Task Force and Mr. James Parmelee of LIPA questioned the possibility of legal issues with the proposed congestion reduction plans. Mr. Brown advised the BIC that members should bring their legal concerns to the NYISO. Mr. Brad Kranz, the BIC liaison will discuss the issue with NYISO counsel.

Installed Capacity Working Group (ICAP)

Mr. Howard Fromer, chairperson of the ICAP Working Group, reported that the first UCAP strip auction and monthly auction were conducted successfully. He also advised the BIC that the next ICAP WG meeting is scheduled for Nov. 1, 2001.

IX New Business

Mr. Glenn Haake of IPPNY reported that the NYISO Operating Committee, at the October 24th (2001) meeting had discussed a proposal before the NYSRC Reliability Committee to amend Local Reliability Rules 3&5 that apply in NYC and LIPA. The proposal provides for the ability to restrict operation of gas fired units based upon forecast load levels. Mr. Haake advised the BIC that comments on the proposal are due by 11/29.

X Administrative Matters

No administrative matters were discussed at this meeting.

XI Adjournment

The meeting was adjourned at 2:45 PM.

Motion #4:

Motion to adjourn the BIC meeting.
(*Motion passed unanimously by show of hands*)

Respectfully submitted,
Peter K. Lemme
Recording Secretary, Business Issues Committee

Business Issues Committee – Action Item Listing

Number	Action Item	Assigned to
BIC.10.25.01-1	Provide historical information showing the difference between scheduled MWs and ATC over time for the PJM and NE interfaces to show how much capacity was unused and what the price differences were.	C. King
BIC.10.25.01-2	Keep BIC informed on the study evaluating the impact that a single Northeast RTO will have on the Market. Report at the next BIC Meeting on the status of NYISO discussions with other ISO's concerning a joint study on the market impact of a single Northeast RTO.	C. King
BIC.10.25.01-3	Investigate and report on the magnitude of LBMP corrections.	J. Savitt
BIC.10.25.01-	Requested to add BME prices to the Market Operations Report	J. Savitt
BIC.10.25.01-5	Report on what other projects caused the TCC Auction Project to be moved back in the schedule.	A. Desell
BIC.10.25.01-6	Investigate possible legal issues related to the proposed congestion reduction market rules with NYISO counsel.	B. Kranz
BIC.10.25.01-7	Coordinate NYISO staff to participate in a discussion a BAWG related to the NYSEG BAWG proposal.	B. Kranz
BIC.10.25.01-8	Report on the frequency, nature, and economic impact of past OOM events for units moved down OOM.	J. Hickey
BIC.10.25.01-9	Arrange for NYISO staff to discuss localized treatment of uplift at upcoming S&PWG meeting.	B. Kranz

NYISO Business Issues Committee Meeting

October 25, 2001
NYS Nurses Association

MOTIONS OF THE MEETING

Motion #1:

Motion to approve the Minutes from the August 23, 2001 and September 27, 2001 Meetings.
(Motion passed unanimously by a show of hands)

Motion #2:

Motion to approve the Voltage Support Service Proposal Items 1 – 5

1. *For the Year 2002, instead of the annual capability payments provided for in Rate Schedule 2 of the Services Tariff, a single rate of \$3919 per MVAR shall be offered to all eligible and qualified suppliers of Voltage Support Service.*
2. *Voltage Support Service supplier capability payments currently being made for 2001 shall remain unchanged and continue for the remainder of the year.*
3. *NYISO shall make the appropriate filings at FERC needed to amend Rate Schedule 2 of the Services Tariff to implement the 2002 capability payment rate of \$3919 per MVAR, and to ratify the capability payments made prior to 2002.*
4. *All other existing components of Rate Schedule 2 of the Services Tariff, such as components dealing with supplier testing, lost opportunity cost and penalties for performance failures shall remain unchanged and in effect for the year 2002.*
5. *For 2003 and beyond, the NYISO staff shall work with the Voltage Support Service Task Force and continue to evaluate alternatives that might be used to provide for the needed supply of Voltage Support Service, identifying established best practices, and report the results of their evaluations and their recommendations, to the Market Structures Working Group and this Committee by September 2002.*

(Motion passed unanimously by a show of hands)

Motion #3:

Motion to accept the Proposal regarding Day Ahead Margin Payment for Generators moved down in Real Time from their DAM Schedule through an Out of Merit call, as presented to the Business Issues Committee on October 25, 2001, and direct the ISO staff to work with the Scheduling and Pricing WG to develop Tariff language for Management Committee consideration.

The ISO will monitor and report on a regular basis and in a manner that maintains confidentiality on the frequency, duration, nature, and economic impact of these events; and propose methods to incorporate any persistent constraints into the ISO's DAM, BME and RT system models.

(Motion passed by a majority show of hands)

* The Business Issues Committee elected Joe Holtman, of Mirant New York, Inc, to fill the Vice Chair position for December 2001 through November 2002.

(Mr. Holtman was elected BIC Vice Chairperson by ballot with 66.06% affirmative votes)

Steve Wemple, the current BIC Vice Chair will assume the position of BIC Chairman beginning December 1, 2001.

New York Independent System Operator - Committee Membership

Business Issues Committee - Attendance October 25, 2001 Meeting in Albany - Parties Checked in Attendance

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Proxy	Guest
NYS Energy Research & Develop. Auth.	End Use - Gov. Agency/Aggr.							
The City of New York	End Use - Gov. Agency/Aggr.	Jay Kooper	Richard Miller				Jonathan Wallach	
Alcoa/Reynolds Metals Company	End Use - Large Consumers	Leonard Singer	Robert Loughney	✓ Michael Mager				
Amerada Hess Corporation	End Use - Large Consumers	Michael DiBella	Greg Sticka	Kelly Lovvorn				
ATCO Management Co.	End Use - Large Consumers	Peter DiCapua	Scott Petersen	George Diamantopoulos	Greg Olsen			
IBM Corporation	End Use - Large Consumers	Leonard Singer	Robert Loughney	Robert Loughney	Steven Latargia			
Occidental Chemical Corp.	End Use - Large Consumers	Leonard Singer	Robert Loughney	✓ Michael Mager				
Praxair Inc.	End Use - Large Consumers	Christian Lenci	Leonard Singer	Robert Loughney	✓ Michael Mager			
Xerox Corporation	End Use - Large Consumers	Leonard Singer	Robert Loughney	✓ Michael Mager				
Metropolitan Transportation Authority	End Use - Large Cons. Gov.	✓ Jesse Samberg	Gary Caplan	Walter McCarroll				
Aaron Breidenbaugh	End Use - Small Consumers	✓ Aaron Breidenbaugh						
Association for Energy Affordability, Inc.	End Use - Small Consumers	David Hepinstall	✓ Larry DeWitt					
Beth Israel Health Care System	End Use - Small Consumers	Catherine Luthin	✓ John Dowling	Jennifer Kearney	✓ Tariq Niazi		Doug Elfner	
Building and Realty Institute	End Use - Small Consumers	Herb Rose	Jeff Hanley	Catherine Luthin	✓ John Dowling		Jennifer Kearney	
Calthness Energy, L.L.C	End Use - Small Consumers	Daniel McBrearty	Jack Feinstein					
Citizens Advisory Panel	End Use - Small Consumers	Gordian Raacke	✓ Larry DeWitt					
CNYC Inc. (Council of NY Coop & Condo)	End Use - Small Consumers	Herb Rose	MaryAnn Rothman	Catherine Luthin	✓ John Dowling		Jennifer Kearney	
Columbia University	End Use - Small Consumers	Catherine Luthin	✓ John Dowling	Jennifer Kearney	✓ Tariq Niazi		Doug Elfner	
Hudson River Energy Group	End Use - Small Consumers	Frank Radigan						
Mount Sinai Medical Center	End Use - Small Consumers	Catherine Luthin	✓ John Dowling	Jennifer Kearney	✓ Tariq Niazi		Doug Elfner	
New York Energy Buyers Forum	End Use - Small Consumers	Catherine Luthin	✓ John Dowling	Jennifer Kearney	✓ Tariq Niazi		Doug Elfner	
New York Presbyterian Hospital	End Use - Small Consumers	Catherine Luthin	✓ John Dowling	Jennifer Kearney	✓ Tariq Niazi		Doug Elfner	
New York University	End Use - Small Consumers	Catherine Luthin	✓ John Dowling	Jennifer Kearney	✓ Tariq Niazi		Doug Elfner	
Refined Sugars, Inc.	End Use - Small Consumers	John Gebhard	Paul Faia	Catherine Luthin	✓ John Dowling		Jennifer Kearney	
William P. Short	End Use - Small Consumers	William Short	Marc Schaefer	Joe DeVito			Ron Matlock	Roberto Denis
NY State Consumer Protection Board	End Use - State Agency	✓ Tariq Niazi						
AES NY	Generation Owners	Generation Owners	✓ Charles Sjoberg					
American National Power, Inc.	Generation Owners	✓ Dorothy Capra	Bill Henson					
Astoria Energy LLC	Generation Owners	William May	Leonard Singer					
Calpine	Generation Owners	John Eff	Thomas Kaslow	✓ Richard Felak				
CH Resources	Generation Owners	Gary Thorn	Gary Miller					
East Coast Power	Generation Owners	✓ Roy Shanker	Gary Keevill					
Edison Mission Marketing & Trading	Generation Owners	✓ William Roberts	Robert Agnello	Jeffrey Ellis				
Energy Nuclear Northeast	Generation Owners	✓ Marc Potkin	William Stone	Ron Mackowiak				Ronald Mackowiak
Indeck Energy Services	Generation Owners	Mike Ferguson	John Schrage	✓ Mark Younger				
KeySpan Ravenswood, Inc	Generation Owners	Kevin Knapp	Rich Hohlman	✓ Dick Ackerson	Ron Lukas		Terrence Kain	
Mirant New York, Inc.	Generation Owners	Vicki Lynch	✓ Joe Holtman	Mark Petro	✓ Doreen Saia			Chris Young
NRG Energy	Generation Owners	Joe Devito	✓ Frank Rapley	Paul Savage	Marc Dworkin		Ruben Brown	
Orion Power New York	Generation Owners	✓ Mary Lynch	Mark Sudbey	John Reese				
PG&E Generating	Generation Owners	Steve McDonald	Jeff Simmons					
PSEG Energy Resources & Trade	Generation Owners	Raymond DePillo	Michael LaFalce	Bob Logan	Dennis Sobieski			
Sithe Energies, Inc.	Generation Owners	✓ Tim Bush	✓ Garry Brown	David Applebaum				
TransCanada Power Marketing	Generation Owners	William Taylor	✓ Elaine Beaudry					
NYS Department of Public Service	Non-voting	Joel Brainard	✓ Bill Heinrich					✓ Harvey Happ
1st Rochdale Cooperative NYC	Other Suppliers	Phyllis Kessler	Gregory Wortham		Andrea Mendez			
Advantage Energy, Inc.	Other Suppliers	Kyle Storie						
Aquila Energy Marketing Corp.	Other Suppliers	Jason Zeller	Peter Brown	David Wiesner	Pamela VanHorn	✓ Richard Mooney		
Automated Power Exchange (APX)	Other Suppliers	Gary Stielanski	Mike FitzPatrick					
Cnergy Capital and Trading	Other Suppliers	Jan Bagnall	John Ambrose					
Cnergy Services	Other Suppliers	Jan Bagnall	John Ambrose					
Con Edison Energy	Other Suppliers	✓ Stephen Wemple	Ivan Kimball					
Con Edison Solutions	Other Suppliers	✓ Stephen Wemple	Rich Staines					
Connectiv	Other Suppliers	Steve Huntoon	Bill Fehr					
Constellation Power Source	Other Suppliers	✓ Glen McCartney	David Taylor	Harvey Reed				
Duke Energy North America, LLC	Other Suppliers	Ronald Matlock	Del Disher	Tom Bankert				
Dynegy	Other Suppliers	Chad Wagner	Matthew Picardi					
El Paso Merchant Energy	Other Suppliers	✓ Alan Foster	Eric Stoerr					
Energetix, Inc.	Other Suppliers	Barney Farnsworth	Gerald Strassner					
Enron Power Marketing Inc.	Other Suppliers	✓ Howard Fromer						
Exelon Generation - Power Team	Other Suppliers	Jeff Guistwhite	✓ Tim Bush	Regina Carrado	✓ Garry Brown			
FPL Energy	Other Suppliers	Bill Fenerty	Dan Wheeler					
HQ Energy Services	Other Suppliers	✓ Michel Prevost	Paul Norris					
KeySpan Energy Services	Other Suppliers	Ron Lukas	Ruben Brown	Peter Chamberlain	John Smith			
Transalta (formerly MEGA)	Other Suppliers	Daniel Lobue	John Carmody					
Morgan Stanley Capital Group	Other Suppliers	Patrick Murray	Karen Kochories	Levon Kazarian	Doron Ezickson			
New Energy Inc.	Other Suppliers	Peter Duprey	Stephen Fernands					
Niagara Mohawk Energy Marketing	Other Suppliers	Marc Overdyk	Dave French					
NU / Select Energy	Other Suppliers	✓ James Scheidrich	Gunnar Jorgensen					✓ Don Barker
Ontario Power Generation Inc.	Other Suppliers	Tasos Karatsoreos	Brian McConville	Ken LaciVita	Scott McArthur	✓ Erica Cheung		
PP&L Energy Plus	Other Suppliers		Jim Strobel	Harry Tom	Roland Moor			
PSEG Energy Technologies Inc.	Other Suppliers	Patricia Esposito						
Sempra Energy Trading	Other Suppliers	✓ Tom Halleran	Dana Volpe	Russel Like	✓ Mally Becker	Bob Chilton		
Strategic Energy LLC	Other Suppliers	Michael Swider	Jeffrey Knox	James McCormick	Helen Caldwell			
Strategic Power Management, Inc.	Other Suppliers	Mario DiValentino	Tom Folchi	Dan Dutlie				
TransEnergie U.S. Ltd.	Other Suppliers	Michael Jacobs	José Rotger					
Williams Energy Marketing & Trading Co.	Other Suppliers	Dennis Keener	Robert O'Connell					
Long Island Power Authority	Public Power - Authorities	✓ James Parmelee	Alan Elberfeld	✓ Kevin Jones				
New York Power Authority	Public Power - Authorities	Dave Wang	✓ Robert Gow	Bob Deasy				
American Wind Energy Association	Public Power - Environmental	David Wooley	✓ Larry DeWitt					
Environmental Advocates	Public Power - Environmental	Anne Reynolds	✓ Larry DeWitt					
Natl Resources Defense Council	Public Power - Environmental	Dale Bryk	✓ Larry DeWitt					
Pace University	Public Power - Environmental	Edward Smelof	✓ Larry DeWitt					
Scenic Hudson	Public Power - Environmental	✓ Larry DeWitt						
Bath Electric, Gas & Water Systems	Public Power - Munis & Co-ops	Neil Winkle	Ken Moore	Jim Hamilton	Paul Pallas	Jack Brown	✓ Tom Rudebusch	
City of Jamestown Board of Pub. Util.	Public Power - Munis & Co-ops	Michael Darroch	✓ David Gustafson	Wally Haase	✓ Tom Rudebusch			
Plattsburgh Municipal Lighting Dept.	Public Power - Munis & Co-ops	Jack Brown	Ken Moore	✓ Tom Rudebusch	Paul Pallas			
Village of Fairport	Public Power - Munis & Co-ops	Ken Moore	✓ Tom Rudebusch	Paul Pallas				
Village of Freeport	Public Power - Munis & Co-ops	Hubert Bianco	Robert Kortright	✓ Anthony Fiore				
Village of Rockville Centre	Public Power - Munis & Co-ops	Paul Pallas	Ken Moore	Jim Hamilton	Jack Brown	Neil Winkle	✓ Tom Rudebusch	
Village of Westfield	Public Power - Munis & Co-ops	Jim Hamilton	Ken Moore	Neil Winkle	Jack Brown	Paul Pallas	✓ Tom Rudebusch	
Central Hudson Gas & Electric	Transmission Owners	✓ James Valteau	Thomas Canino	Jeff May	Rick Greener			
Consolidated Edison	Transmission Owners	Michael Forte	✓ Gary Rozmus	✓ Gerry Dunbar				
Niagara Mohawk Power Company	Transmission Owners	✓ Jerry Ancona	Martin Amati	Scott Leuthauser				
NY State Electric Gas (NYSEG)	Transmission Owners	✓ Rick Mancini	John Kobuskie	✓ Ray Kinney				David Kirmieck(BIC)
Orange & Rockland, Inc.	Transmission Owners	✓ Gary Rozmus						
Rochester Gas & Electric	Transmission Owners	✓ Laurie King-Pirchner	Gerald Walter					
American Electric Power (AEP)	Non-voting	Glenn Riepl	James Shrewsbury					
New Member	Non-voting							
New Member	Non-voting							

New York Independent System Operator - Committee Membership

Business Issues Committee - Attendance October 25, 2001 Meeting in Albany - Parties Checked in Attendance

Organization	Sector	Representative	Alternate1	Alternate2	Alternate3	Alternate4	Proxy	Guest
--------------	--------	----------------	------------	------------	------------	------------	-------	-------

NYISO and Hunton & Williams Members in Attendance:

Ira Freilicher	Hunton & Williams
✓ Ken Davis	Hunton & Williams
✓ Kevin Jones	Hunton & Williams
✓ Charles King	NYISO
✓ Brad Kranz	NYISO
✓ Kristen Kranz	NYISO
✓ Leigh Bullock	NYISO
✓ Lori Evans	NYISO
✓ Peter Lemme	NYISO
✓ Jen Davies	NYISO
✓ Walt Pfuntner	NYISO
✓ Dave Evanoski	NYISO
✓ Elaine Robinson	NYISO
✓ Kathy Whitaker	NYISO
✓ Mary Dewitt	NYISO
✓ John Cutting	NYISO
✓ Rick Hoefer	NYISO
✓ Dick Mills	NYISO
✓ John Hickey	NYISO

Key:

- ✓ = In attendance
- ✓ = In attendance by teleconferencing