

NYISO Group 1 Projects - Summer 2001

Project Manager	#	VISTA ID	Project Description	Issue ID
	1		Generation Supplier Issues Examine and evaluate generator issues to determine what market rules affect participation in the energy and ancillary services markets correlating these affects with power system operating practices that affect reliability. Implement tariff modifications that address market rules in response to the findings and conclusions. Project covers:	
Hickey		A085.K.11	Payments for uninstructed over generation	B36, E22
Hickey		A085.K.11	ELR bid & settlement programs for hydro & GT's	E50
		A085.K.11	ICAP and elimination of need for economic withholding bid strategies	
Hickey		A085.K.11	Environmental constraints affecting unit operation and settlement	E11
Hickey		A085.K.11	Review of regulation performance penalties for both PURPA, and non-PURPA unit classes	F39
Hickey		A085.K.11	Settlements for units run out of merit	F02
			Revised Training program	
	2		External Transaction Scheduling & Curtailment Examine and evaluate the external transaction scheduling and curtailment processes and develop tariff rules to be applied in response to actions required by ECA's. Develop in-hour curtailment process which is consistent with the scheduling process. Project Covers:	
Hickey		A085.K.21	Pricing rule for externals	F94
Hickey		A085.K.21	Settlement rules during periods of failed checkout or curtailment	F94
Hickey		A085.K.21	In-hour curtailment prioritization rules	F94
Hickey		A085.K.25	Software to implement the above	E63
Hickey		A085.K.06	Integrate transaction tag rules & restrictions	A44
			Revised Training program	
Hickey		A085.K.05	Transaction curtailment -enhance communication process by improving informational messages when transactions are not scheduled or curtailed	A19
Hickey		A085.K.22	W/ Scheduling & Pricing Working Group evaluate Long Term external transaction scheduling curtailment & settlement alternatives and make recommendations for market modifications.	F95
	3		Price Responsive Load Examine and evaluate price responsive load programs that can be supported or implemented through the NYISO. Programs include emergency curtailment and loads that can respond to price in the DAM and HAM markets. Project Covers:	
Lawrence		A026	Price responsive study report and findings, with recommendation on programs that can be implemented at an ISO level	F28 K04
Hickey		A085.K.27	Zonal Price Cap Day Ahead Load Bidding	
Hickey		A085.K.27	Program implementation market rules and registration process definition	K12
Hickey		A085.K.27	Bidding and settlement modifications required to support programs	K12
Hickey		A085.K.27	Operating rules required to support emergency curtailment programs	K12

NYISO Group 1 Projects - Summer 2001

Project Manager	#	VISTA ID	Project Description	Issue ID
Balsler	4	A070	<p>Mitigation during Non-Competitive Periods Examine methodologies that can be applied to bids during periods that segments of the market can exercise market power. Implement selected program of in day mitigation. Project Covers:</p> <ul style="list-style-type: none"> Agreed upon circuit breaker methodology Required tariff modifications Software to support the methodology Expanded Price Correctgion Authority 	F89 F93
Hickey	5	A085.K.20	<p>Address Scheduling Process Inconsistencies Evaluate any apparent inconsistencies between the DAM, HAM and real time scheduling tools (SCUC, BME & SCD). Implement any algorithmic or process modifications which can be identified as a cause of an inconsistency. Project Covers:</p> <ul style="list-style-type: none"> Define proper level of consistency in constraints being observed by each process 	F34
Hickey		A085.K.20	<ul style="list-style-type: none"> Resolve data issues which result in sub-optimal SCUC and BME evaluations, includes Purpa scheduling, out of merit scheduling, unit derates, and outaged unit bidding errors 	F47
Hickey		A085.K.15	<ul style="list-style-type: none"> SCD & scheduling software re-design analysis 	F38
Hickey		A085.K.07	<ul style="list-style-type: none"> Insuring OOM status updated in BME 	F66
Hickey		A085.K.02	<ul style="list-style-type: none"> Outage Scheduler Updates - Simplify and automate the method for updating the outage scheduler 	E43
Hickey	6	A085.K.14	<p>Multi-hour Block Transactions *** Develop bidding and scheduling system that provides a minimum run period to external transactions in the day ahead scheduling horizon. Develop process to accommodate multiple external schedule modifications within each hour</p>	E54
Budd	7	A051	<p>Reserve Market Studies and Process Modifications Complete evaluation of reserve market and recommend modifications and processes as agreed to by the MP's. Project Covers:</p> <ul style="list-style-type: none"> Expansion of market to external parties 	F20
Budd		V010.T.06	<ul style="list-style-type: none"> Evaluation of mandatory bid requirements for 10 min NSR market 	K09
Budd		A028	<ul style="list-style-type: none"> Study locational operating reserve requirements (Complete) 	K05
Budd		A051	<ul style="list-style-type: none"> Implement locational reserve pricing mechanism 	K07
Budd		A051	<ul style="list-style-type: none"> Study feasibility of co-optimizing reserves & energy with respect to available transmission 	F73
Budd		A051	<ul style="list-style-type: none"> ISO evaluate option of using external resources for regulation & spinning reserve, include evaluation & recommendations in report on ancillary services markets 	B13
Budd		A051	<ul style="list-style-type: none"> Develop a method to accommodate external reserve supply 	E53
Budd	8	V810.T.02	<p>Inter-Control Area Seams Issues Participate with the regional task force to study and resolve inter-control area transaction scheduling and operations issues. Project Covers:</p> <ul style="list-style-type: none"> Complete preparations for all external parties to take service under the MST 	D01

NYISO Group 1 Projects - Summer 2001

Project Manager	#	VISTA ID	Project Description	Issue ID
Castle		A037	Develop a transaction checkout and curtailment process	F48
Lampi		TBD	Tariff filing to include modifications made to ICAP manual regarding efforts to eliminate shortages in total operating reserves on a least cost basis.	1005
Campoli		TBD	OASIS Software Compliance Modifications	1001
Lampi	9	V011.107.01	Regulatory Response Tasks Complete all required regulatory filings and make preparations for the technical conference. <i>Project Covers:</i>	K14
Buechler			Re-file Lost Opportunity Cost formula for NSR	K15
Lampi		V011.107.01	ISO file status report on Governance structure	B38
Lampi		V011.107.01	Board review of ISO committees	D17
Hickey			RTO Response to FERC	A40
	10		Posting & Logging Enhance the posting and logging functions to provide additional information to the MP's. <i>Project Covers:</i>	A04
Campoli		V810.T.03	Improved TTC/ATC information by interface	F21
Hickey		A085.K13 A033	System emergency notifications	F44, F63
Mayo			Consolidate operations logging functions	F67
Castle			Posting of Billing reconciliation report and ancillary service details (Complete)	K11
Hickey		A085.K.13	Posting of additional data requirements as defined by the BIC	E59
Hickey			Monthly curtailment reports	F85
	11		BIC Actions Work with the BIC and the appropriate working groups to address global BIC issues including ongoing reviews. <i>Project Covers:</i>	
Mayo		V720.T.01	Review and update of MP manuals	E46
Savitt		V740.T.04	Evaluation of the market close times and scheduling analysis windows	E21
	12		Transmission Planning Develop processes required to support the transmission planning initiatives. <i>Project Covers:</i>	
Corey		V130.T.01	Development of guidelines for new interconnections including cost allocation process	B30
Corey		V130.T.09	Complete the long term transmission planning study	F43
	13		TCC Issues Continue analysis and enhancements to the TCC allocation and auction process. <i>Project Covers:</i>	
Desell		V150.T.04	BIC and ISO develop methodology to award transmission expansion TCC's	E41
Desell		V150.T.08	Complete analysis and forward recommendations with respect to reconfiguration auctions	B21
Desell		V150.T.08	Report on experiences with the TCC auction process	B22
Desell		V150.T.08	Review with MP's TCC auction time periods	B18
Williams		V150.T.09	Develop reporting and posting process for MP's to review TCC primary and secondary ownership	B19
	14		Internal ISO Scheduling Process Improvements Review internal scheduling processes and develop procedures required to improve the system including any recommendations for software enhancements. <i>Project Covers:</i>	
Gonzales		V870.T13	Creation of scheduling manual for both the DAM and HAM including limit reduction process	F87

NYISO Group 1 Projects - Summer 2001

Project Manager	#	VISTA ID	Project Description	Issue ID
Gonzales Hickey		V870.T14 A085.K26	Notification procedure for units with long start ups Develop policy and service level agreements with MP's to resolve bidding errors prior to market close	A15 F101
Hickey Hickey Hickey Hickey	15	A085.K.09 A085.K10 A085.K16 A085.K17	Billing & Settlements Review and implement all settlement modifications required based on rule changes and tariff filings. Working with the Billing & Accounting WG modify settlement and data exchange processes. Project Goals: Compliance with the TSC information filing Compliance with the MST/OATT information filing Enhanced billing reconciliation process (True Up process) Treatment of Niagara when it is a net (-) generator providing regulation service	F97 F98 F99 F100
Hickey	16	A085.K.23	Direct Generator Plant Communications Implementation of a communications system(s) that will support voice and data communications directly with generators and generator owner management centers.	A46
Hickey	17	A085.K.24	Pricing when fixed block generator resources are running (Hybrid Solution) Develop and implement pricing algorithm to be used in real time when fixed block generation resources are started.	F91
Mackles	18	V410.T.02	Non-transmission services unbundling Revise ISO funding mechanism for non-transmission services	B03, K13
Savitt	19	V740.T.05	Evaluation of marginal losses pricing methodology Perform study and report on marginal pricing methodology and consider alternatives with BIC	B02
Silver	20	V634T.01	Automate revised Shared Activation of Reserve Process Enhance the shared activation of reserves process to include the Maritimes (Complete) and support of HQ wheels.	F45
Brian Hurysz	21	TBD	Market Improvements In the event of a failed DAM posting, the system needs to be modified to allow secondary re-posting. Action must be labeled as re-posting not price correction.	1002
Castle		TBD	Procedure for Handling Generators w/ Mechanical Problems not wanting DAM obligation but continues to operate in the HAM	1006
Hickey	22	A085.K.18	Security ISO study bidding & dispatch under storm watch conditions & provide analysis of present method & possible options (Noted that some of this functionality is provided by the Circuit Breaker Project)	B11
Tammar		TBD	ACE Diversity Interchange - ADI is a method to take advantage of Area Control Error (ACE) diversity among several Areas to reduce regulation requirements (ACE) in each participating area. In Real time, ACE values are netted out, exploiting the diversity in sign of the ACE values. Thus participants reduce their	1003
Waldele		A049	Creation of NYSIO Short Circuit Database	445

NYISO Group 1 Projects - Summer 2001

Project Manager	#	VISTA ID	Project Description	Issue ID
Hickey	25	A085.K19	<p>Virtual Bidding *****</p> <p>Study and Implement Market Rules which allow for bidding of non physical entities for a II market participatnts, with the inclusion of price capped load bidding. Project Covers:</p> <ul style="list-style-type: none"> Virtual bidding of load and Generation Report to FERC on implementation plan Revised Training program 	<p>A45</p> <p>A43</p>

--	--	--	--	--

*** These items are flaged as 1A- Actively being pursued with Deployment in Fall '01

NYISO Group 2 Projects - Post Summer 2001

Project Manager	#	VISTA ID	Project Description	Issue ID
Hickey	1		Generation Supplier Issues Implement a process for GT start up costs are used in evaluation for HAM and Real Time markets.	E38
Cappers	5		Enhance Scheduling Process Bulk Power System Event Tracker Project - Produce an Integrated Database that unites Generator Scheduled information, forced outage information and transmission outage information.	F96
Castle			OC examine treatment of resources with outputs in increments of less than 1 MW	E12
Castle			Schedule Changes - Coordinate operations input for a specification for implementing more frequent schedule changes in SCUC and BME	F64
Hickey		A085.K.20	BME v/s RT Scheduling and prices - (Long Term View). Moderate consequences of inconsistency between RT & BME See I Reese 1/18/00 email	A40
Gonzales		V870.T02	NERC Tagging Process - Define NYISO role in new NERC tagging process and assure compliance or identify potential non-compliance	F59
Gonzales			BME /SCUC fix required for managing HQ proxy separation more effectively - When HQ connection is down for service but HQ schedules transactions that can't physically happen, SCUC reconfigures the system to prevent the transactions	F92
Hargrave			SCUC Enhancements - Outline a procedure for extending DAM forward commitment beyond the next day (2-7 days)	F58 F81
Budd	7	V810.T.05	Reserve Market Studies and Process Modifications Develop & implement methodology to permit resources to supply that portion of their total capability which is capable of loading on 10 min notice as 10 minute NSR	K08
Budd		NEW	Develop methods to use demand side resources for reserves.	K10
Buechler			ISO Staff and committees to develop a plan to implement multi-settlement system for reserves	K03
			Study 3 proposals to permit MPs to obtain transmission capacity (TC) at the critical interfaces for reserves, including self supply options. A) allow MP to reserve TC. b) provide simultaneous optimization of transmission for energy and reserves; and c) simultaneously establish call options on both sides of the critical interface.	
Desell		V150.T.03	Statewide Installed Reserve Requirements Study	F78
Budd		A085.K11	Investigate counting 10 M NSR portion of 30 M NSR supply	E61
Budd		V810.T.04	Investigation of 3 proposals to facilitate advanced self-supply mechanisms and report to BIC.	K06
Budd	9		Regulatory Response Tasks Facilitate the activities of the RWG in meeting the FERC Tariff requirements	F90

NYISO Group 2 Projects - Post Summer 2001

Project Manager	#	VISTA ID	Project Description	Issue ID
Lathrop			ISO file modifications to Services Tariff to change time period Market Participant permitted to challenge Settlement (Sec 7.4) to match OATT time period	F04
Lathrop			ISO make informational filing describing operation of TSC formula in Attachment H of OATT - file with evaluation of ancillary service markets	C02
Quint			ISO revisit timetable for posting corrective actions (I.e. revised LBMPs) Longterm flag window for reserving & correcting prices	B43
Mackles		V410.T.03	ISO or TOs shall report all transmission service ISO provides for wholesale or unbundled retail on form No. 582 and be billed for FERC fees accordingly - FERC order requested. Loss of data for April 2002	B37
Hickey	10	A085.K.15	Posting & Logging Automate Posting of Out of Merit and Outage Scheduler Data	F37
Savitt	11	V740.T.09	BIC Actions BIC clarify obligations & proc for ISO & participants after 1st 30 days of operations (per ECA No. 3), if day-ahead market posting can't occur by 11 AM	E19
Hickey			BIC examine what are critical path items for ISO to accommodate expanding retail access	E23
			BIC review bid mitigation methodology for in-city units	E44
Corey	12	V130.T.03	Transmission Planning Reactive Resource Adequacy Study including; Review of reactive representation un NYISO power flow studies, review of coordination of NYISO and TO voltage/reactive operating rules and procedures, and evaluation of reactive resources at the statewide and local	E60
Corey		V130.T.07	Development of a Transmission Expansion Planning Process	F79
Williams	13		TCC / TSC Issues BIC, OC, ISO examine ways to prevent/deal with unforeseen Optimal Power Flow unfeasibility in the TCC auction which can't be handled through OATT Attachment M ETCNL reduction techniques	E27
Desell		V150.T.05	ISO provide new / enhanced Optimal Power Flow optimization model for end-state TCC Auction. (Software to run end state TCC Auction)	E40
Desell			ISO file Transition Period Payments (LTPP), with explanatory material - requires 205 filing	B31
Castle	14	TBD	Internal ISO Scheduling Process Improvements Transaction Scheduling - automated checkout.	1004
	15		Billing & Settlements	

NYISO Group 2 Projects - Post Summer 2001

Project Manager	#	VISTA ID	Project Description	Issue ID
Hickey			Working with the Billing & Accounting Working Group modify data access tools and information provided to Market Participants. Project Covers: <ul style="list-style-type: none"> Format change to invoice Creation of centralized invoicing system Provision of data availability for minimum of 2 years Availability of all billing determinates daily Individual cash flow settlement analysis Version logging system 	A13 A33
V. Budd		TBD	PJM Overuse - development of Billing and Auditing capability	1010
Hickey	21	V632.T01	Market Improvements ISO provide internet software to support information exchange with Market Participants independent of MIS (for auctions, load forecast methodologies, ICAP) Data Warehousing and Retrieval - for Reporting, Mkt analysis, Billing/billing reconstruct, testing, training, others? BIC examine potential creation of trading hubs.	E39 A42 A12 E24
Thompson			ISO eSchedules implementation: either obtain PJM's eSchedules for NY Implementation or develop own retaining similar look and feel as eSchedules. LBMP software not flexible enough to accommodate variety of transactions, generation, markets, & load movement	A23
Thompson			ISO study feasibility & cost for SW changes & tariff to accom transmission bidding in consultation with stakeholders & report to FERC	B07
Balser		TBD	Review situation where CT starts at mitigated price and minimum run time extends operation into unmitigated prices (tariff filling required)	1007
Ravalli	22		Security SOAS Design Proposal to improve Reserve Pickup performance (Prior F55) Control Performance - Study possible actions to be taken for short-term and long-term improvement of NYISO performance	E62 F50
Tammar			State Estimator - Draft an implementation Plan for the state estimator. Includes F80	F57
Hickey		A085.K.08		
Mayo Savitt	23	A039 V740.T.06	Market Reports Develop & Implement a Customer Satisfaction Survey BIC request Market Advisor & Market Monitor issue report on issue of whether or not bidding protocols for load & generators in multi-step commitment process produces results that create unfair financial advantage to load.	F42 E20
Savitt		V740.T.07	ISO submit evaluation of ancillary services markets (combined with MC request for year 1 eval e06 and BIC request e15 on 102500	B14

NYISO Group 2 Projects - Post Summer 2001

Project Manager	#	VISTA ID	Project Description	Issue ID
Savitt		V740.T.08	ISO report magnitude of minimum generation & start-up costs & explore in report alternative ways to allocate those costs	B32
Desell		V150.T.04	ISO make filing detailing & justifying any locational ICAP requirements, include impacts market & proposed mitigation measures	B05
Adams		V100.T.01	ISO Publish reports covering power flow & congestion cost info on all NY transmission interfaces (Does not specify where must be published)	D24
Thompson			Analysis of a System Dispatch Algorithms in a market based system	E55 E56
Savitt	24	V740.T.10	Market Monitoring Issues Procedures to execute mitigation (Manual & Auto)	F05
De Tran	26	TBD	NERC / NPCC Common Power System Modeling Project - need IS support (or consultant) to enable provision of the breaker oriented network model of system in CIM XML format as part of NERC Security Coordinator obligation	1009
J. Mayo	27	TBD	Audit Recommendations a. Develop the functional specifications for a Voting application that is not a spreadsheet application but a closed stand-alone software program. This Voting application should include the following: · A relational data model · Traditional client front-end, which can be used to both enter and manipulate data, as well as set security and administrative functions b. Recommend to Senior Management that a voting system be implemented to improve change control.	1008
J. Ravalli	28	TBD	NYISO Internal Systems Improvements Spectrographics Replacement	1011