

Operations Performance Metrics Monthly Report



June 2012 Report

Operations & Reliability Department New York Independent System Operator

Prepared by NYISO Operations Analysis and Services, based on settlements initial invoice data collected on or before July 10, 2012.

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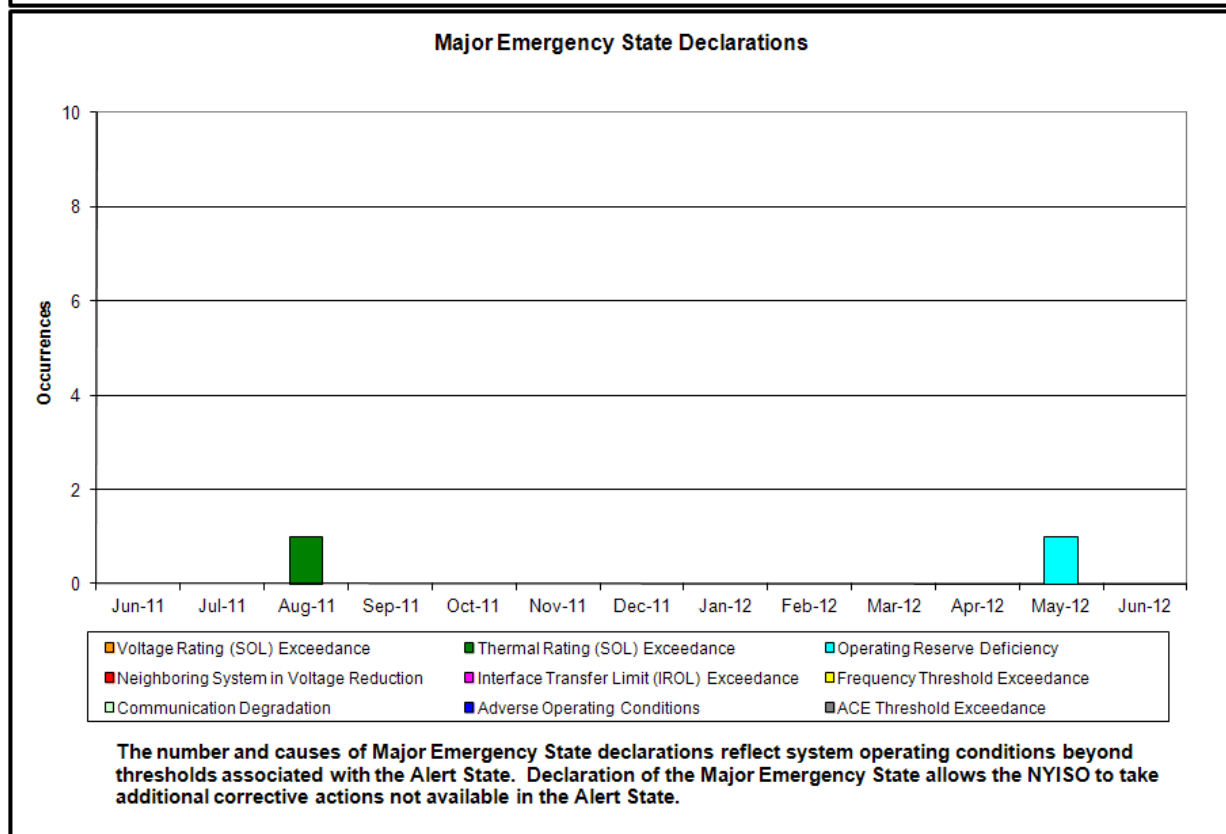
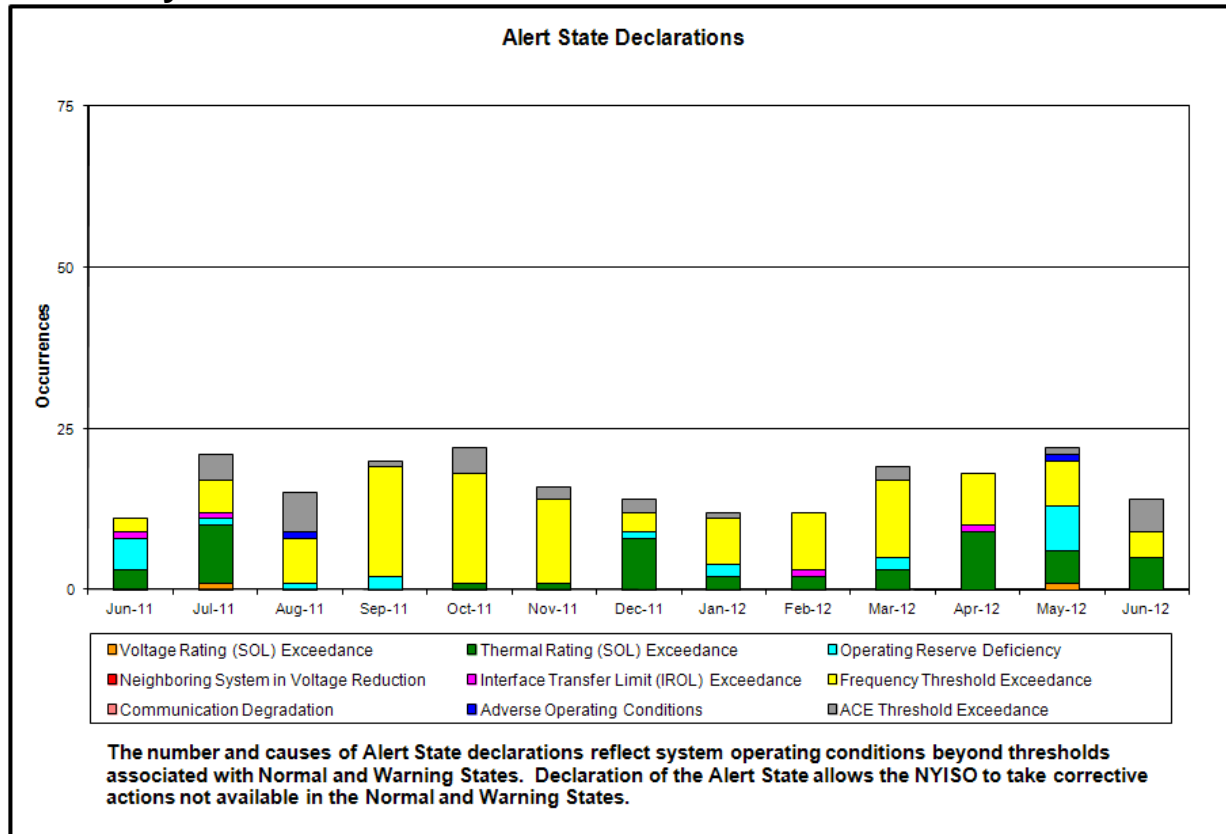
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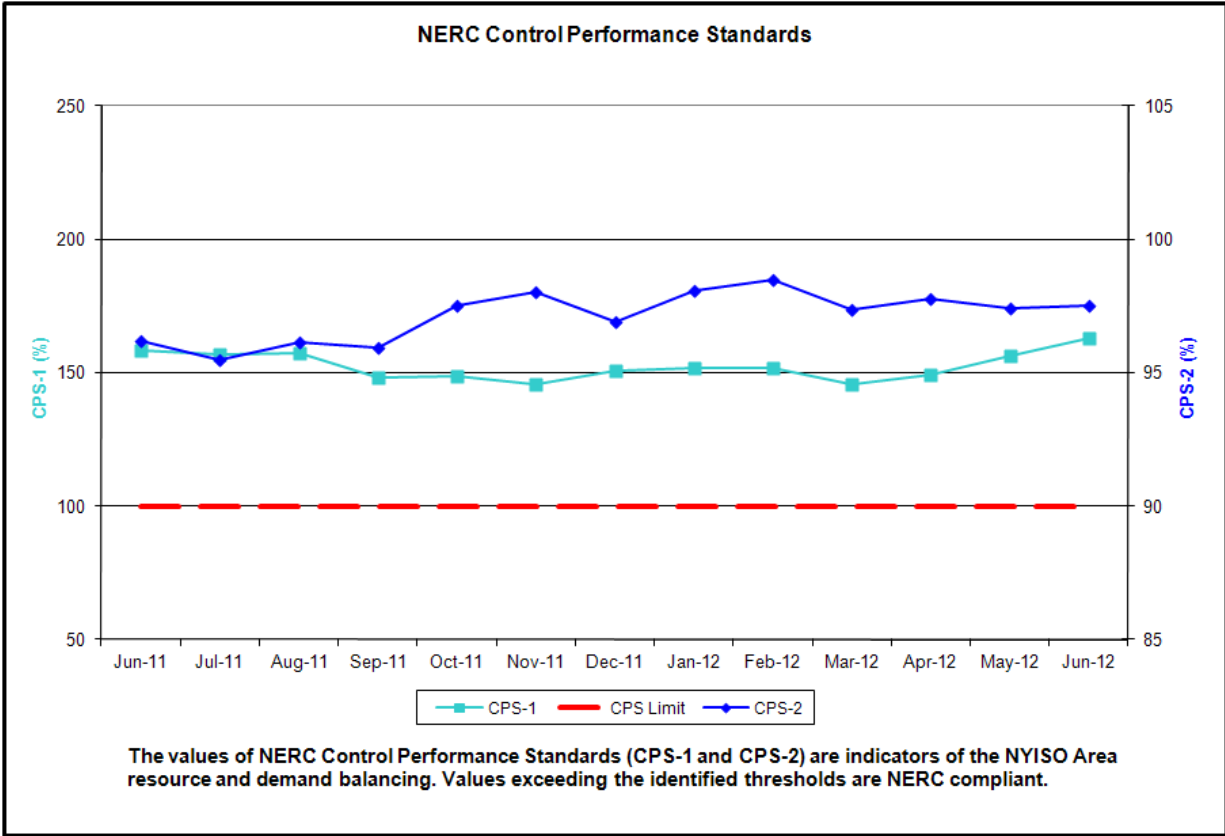
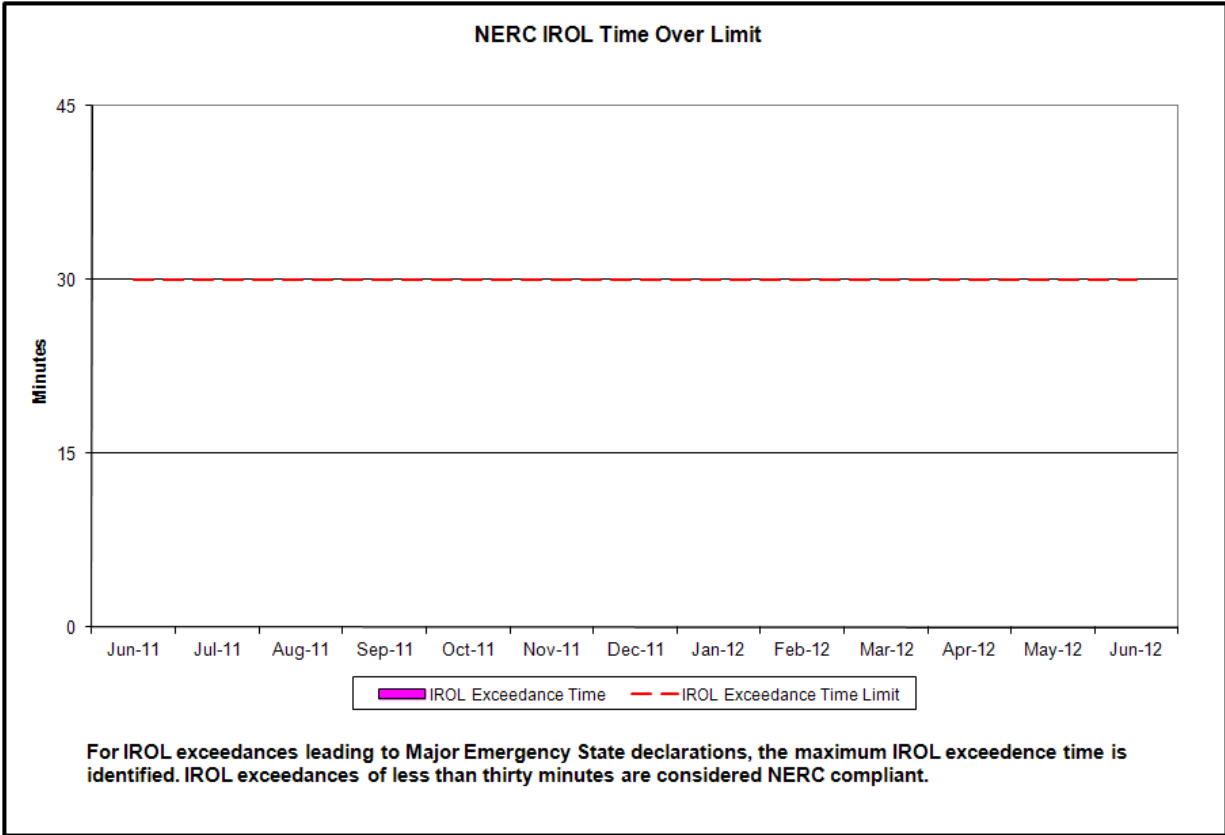
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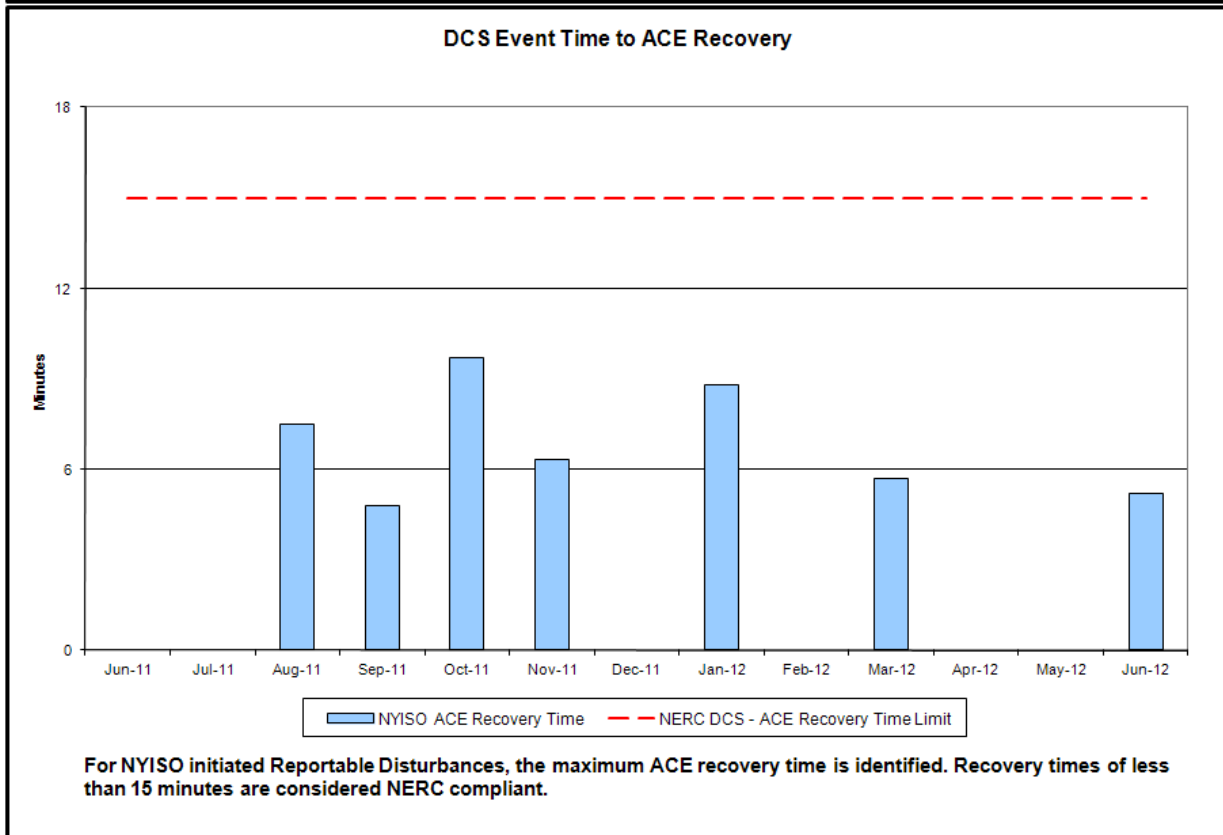
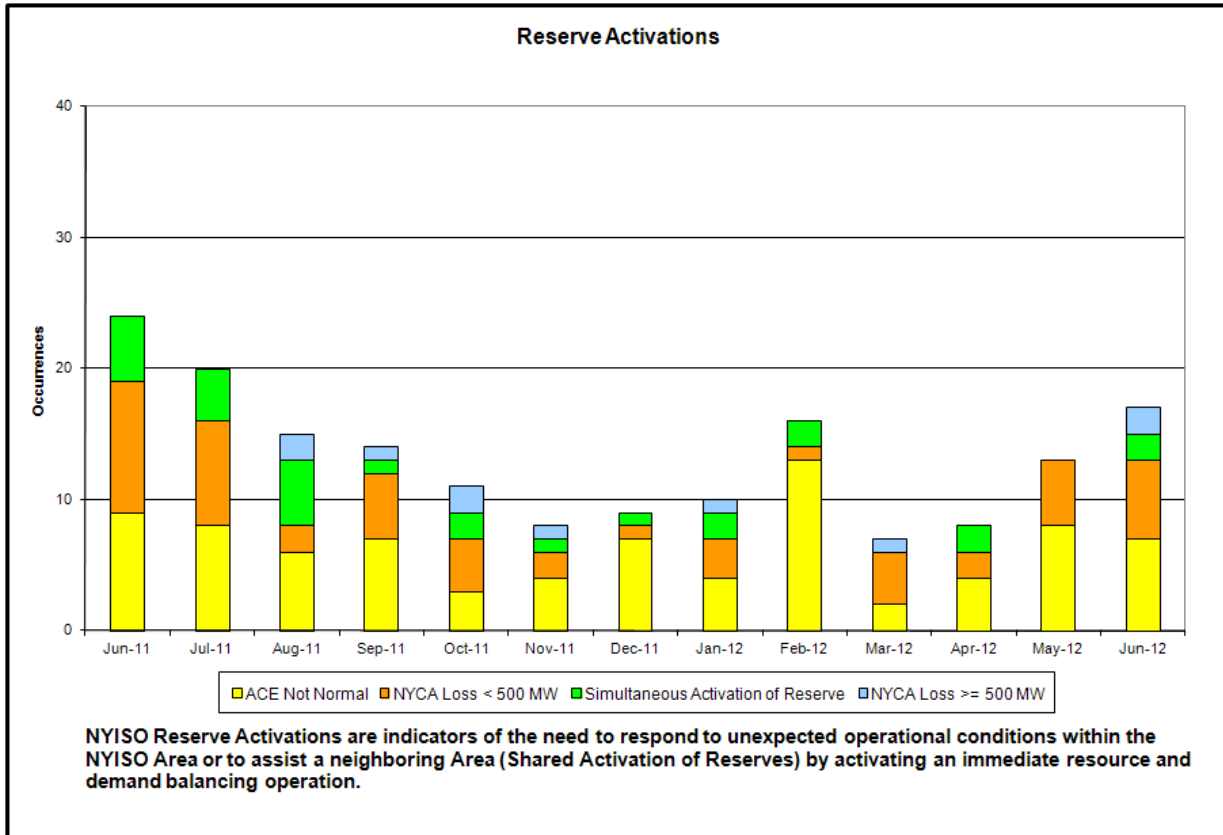
June 2012 Operations Performance Highlights

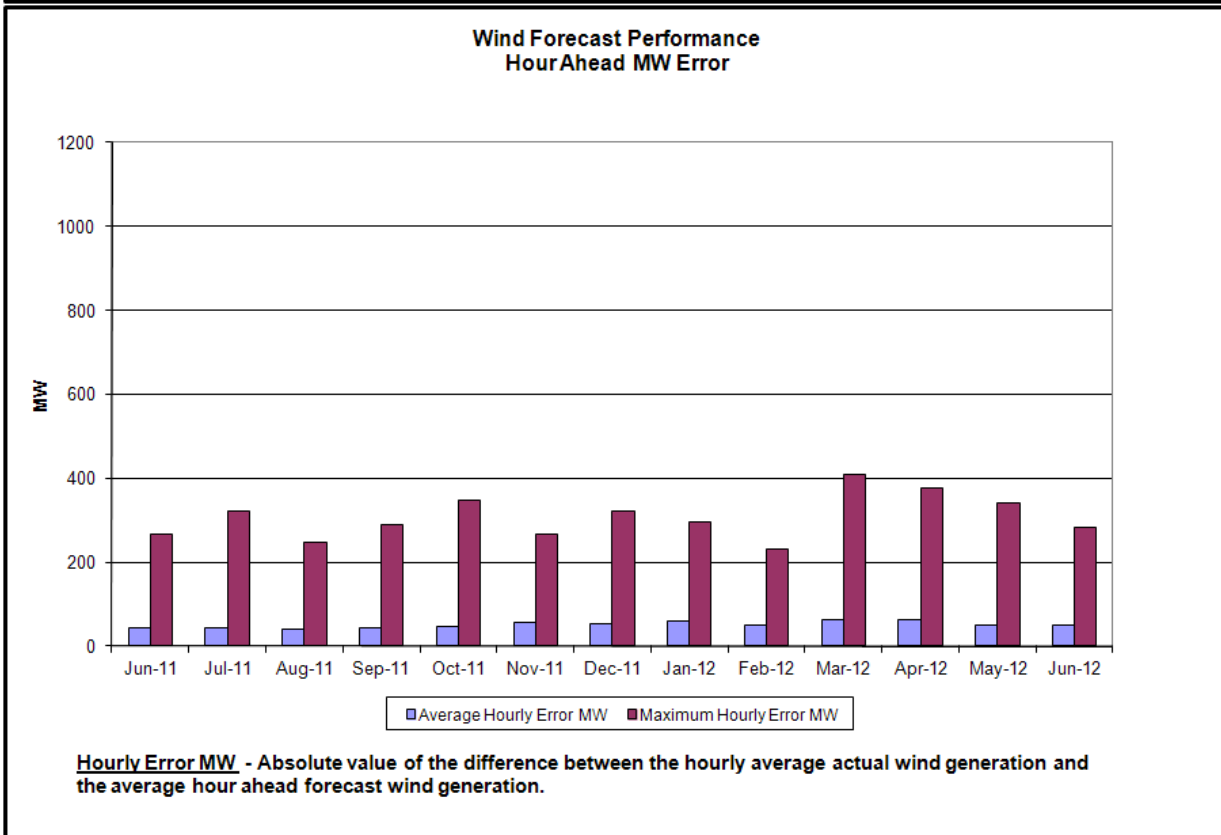
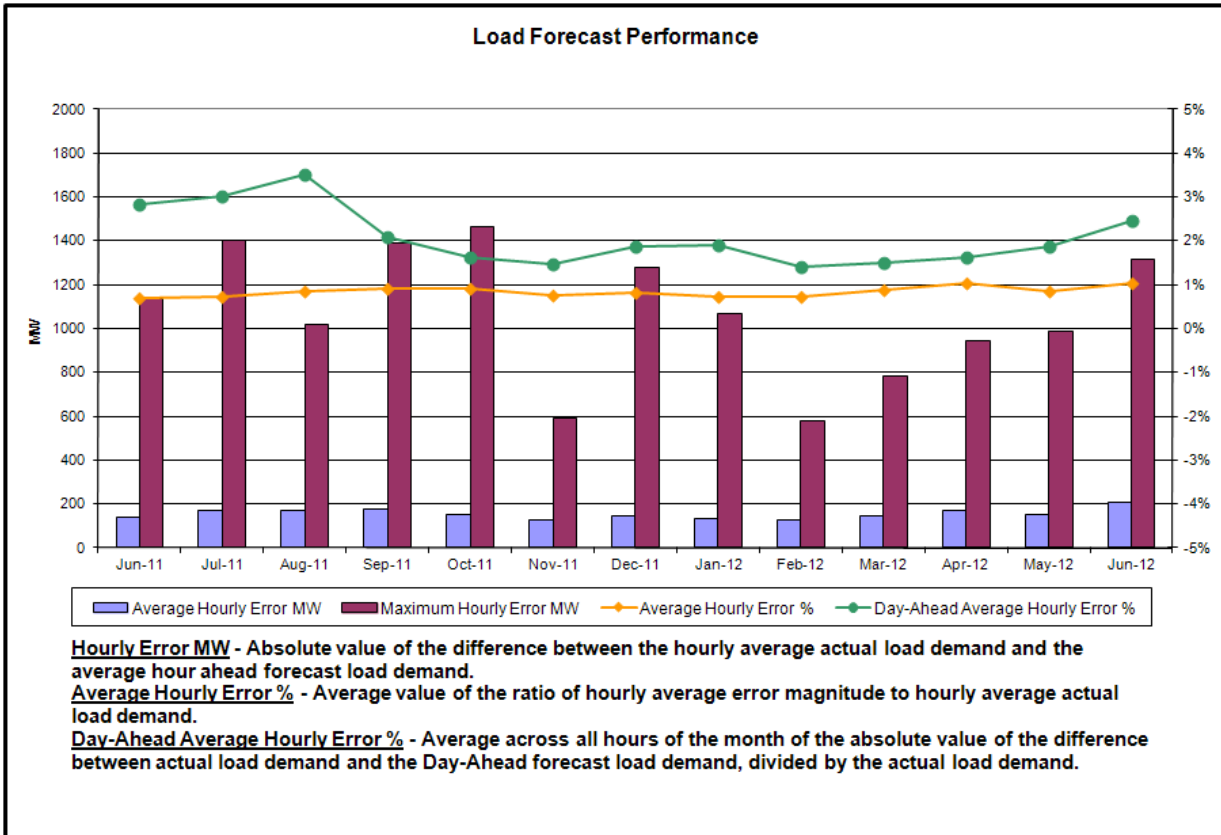
- Peak load of 32,127 MW occurred on 6/21/2012 HB 16
- All-time summer capability period peak load of 33,939 MW occurred on 8/2/2006 HB13
- 23 hours of Thunder Storm Alerts were declared
- No hours of NERC TLR level 3 curtailments
- Implemented 15 minute scheduling with PJM on 6/27/2012
- Implemented 1310 MW 10-minute reserve requirement and increased HQ-NY Chateaugay import limit to 1310 MW for scheduling 6/27/2012
- EDRP/SCR resources were activated on 6/20/2012 , 6/21/2012 and 6/22/2012

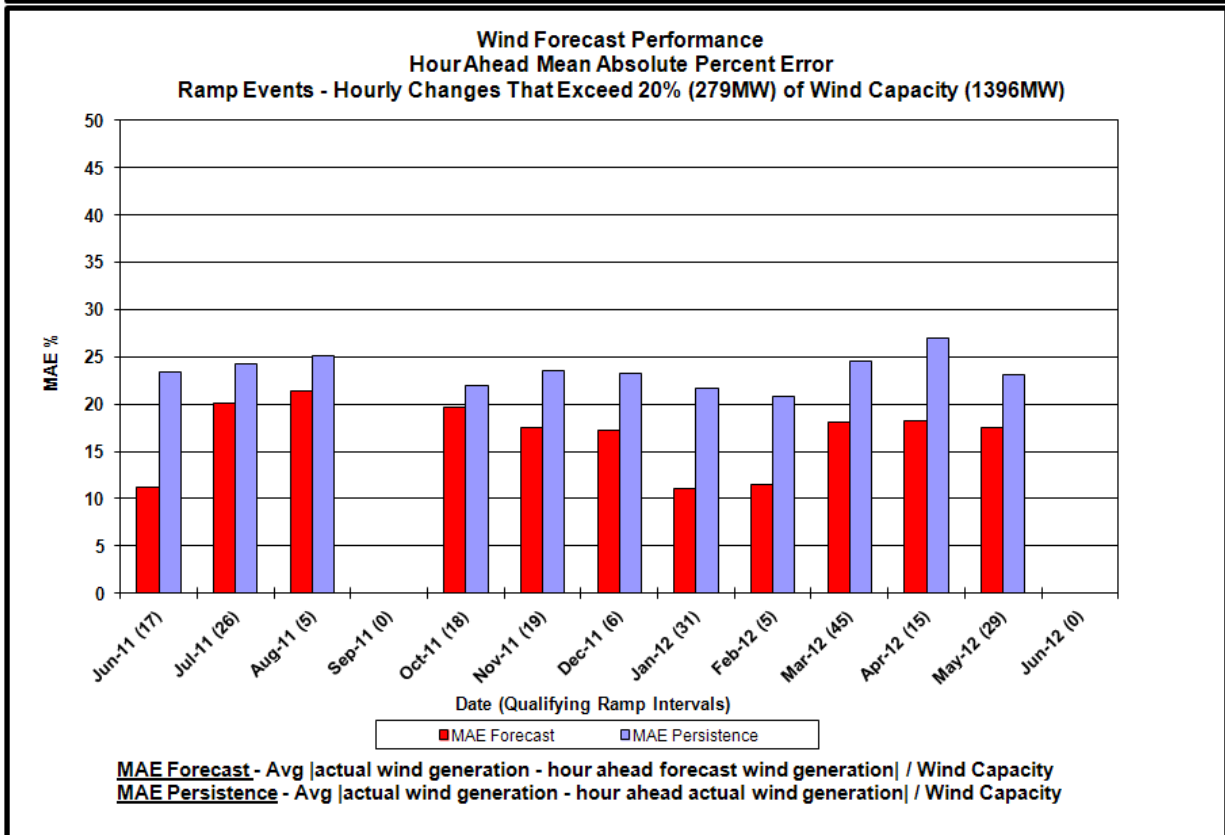
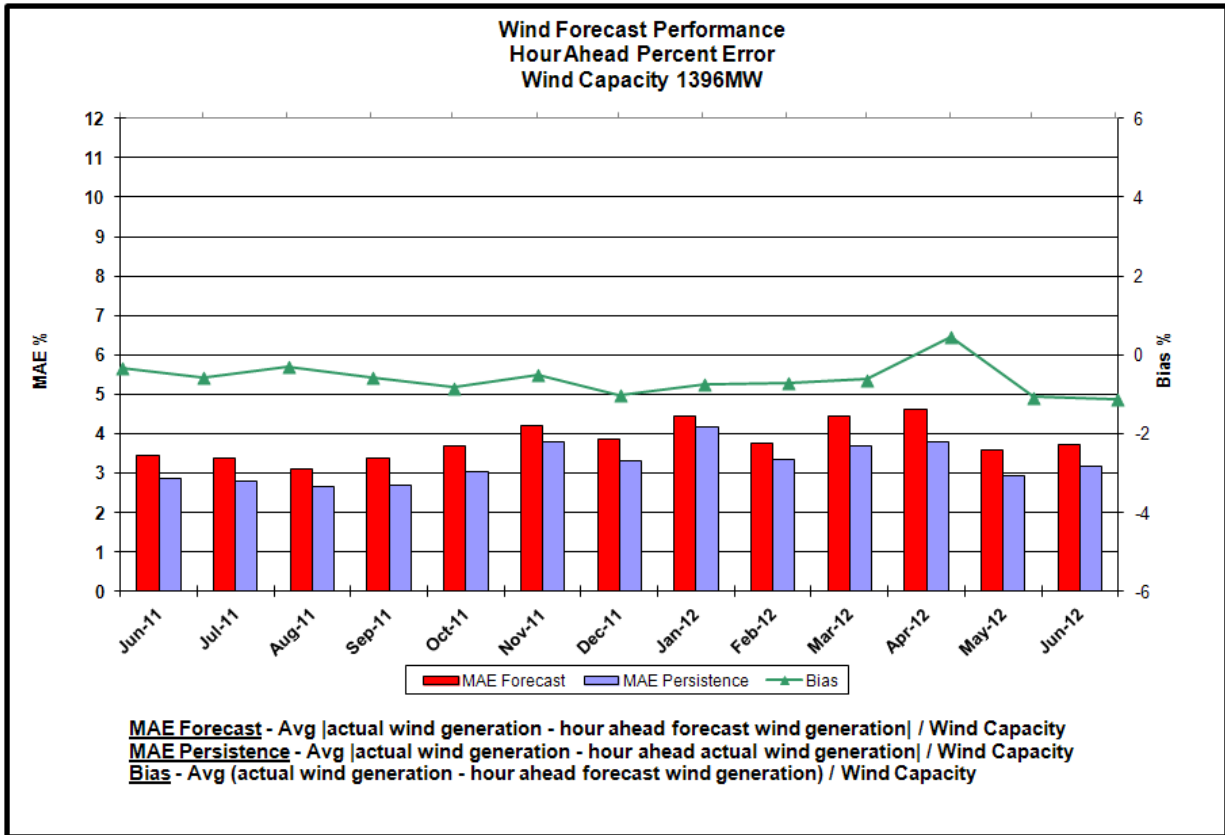
Reliability Performance Metrics

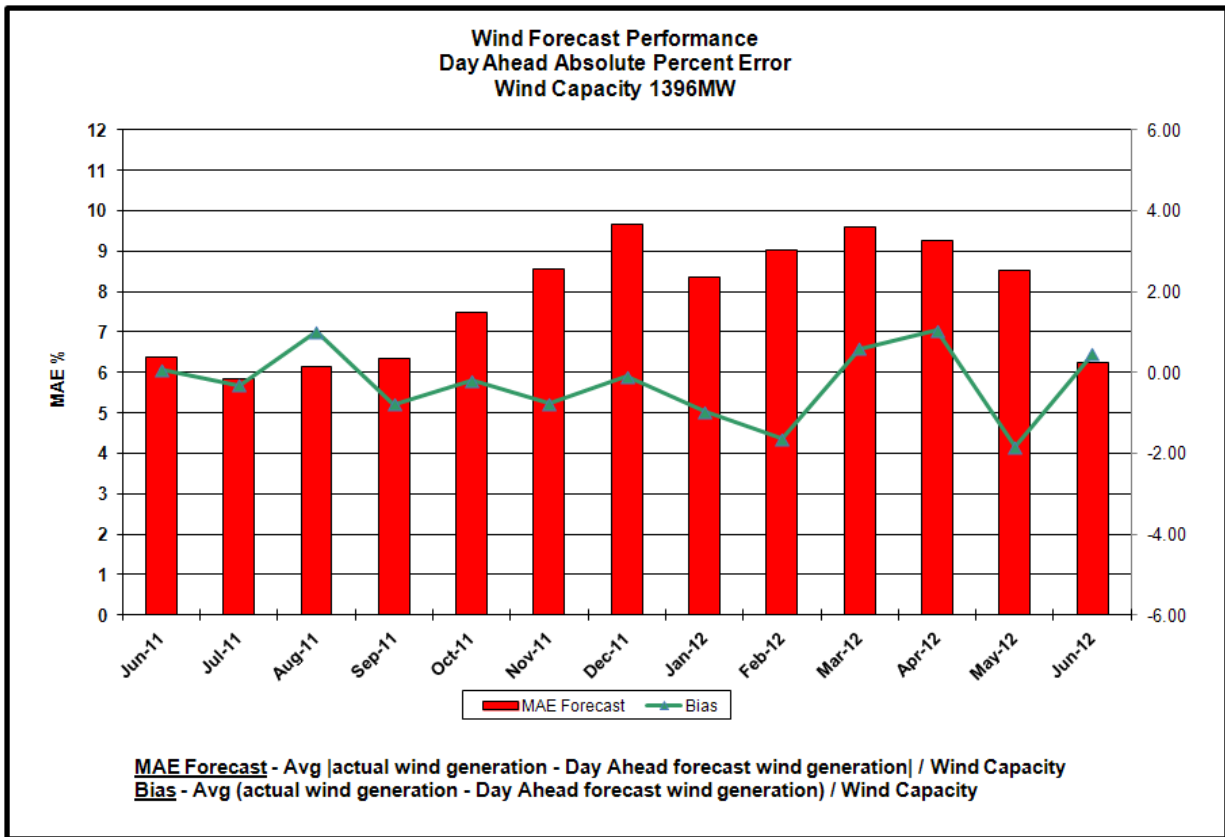


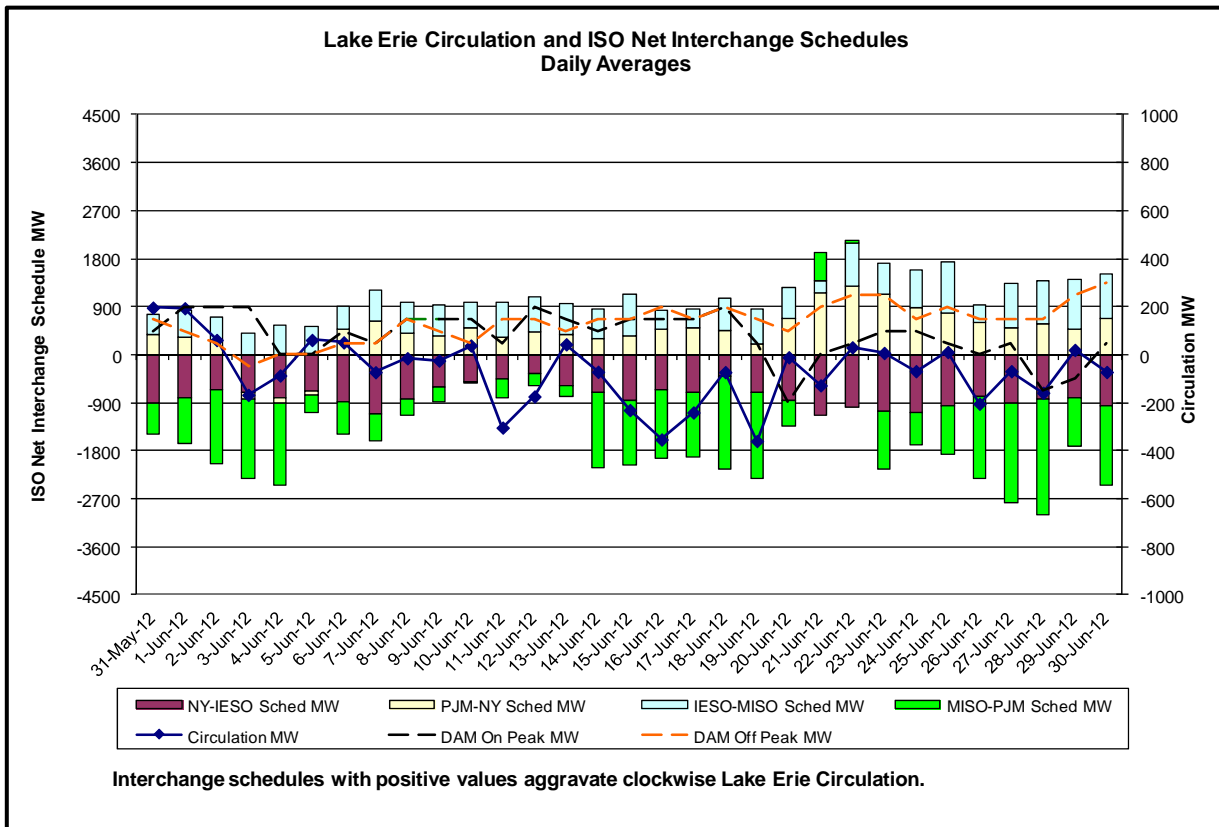
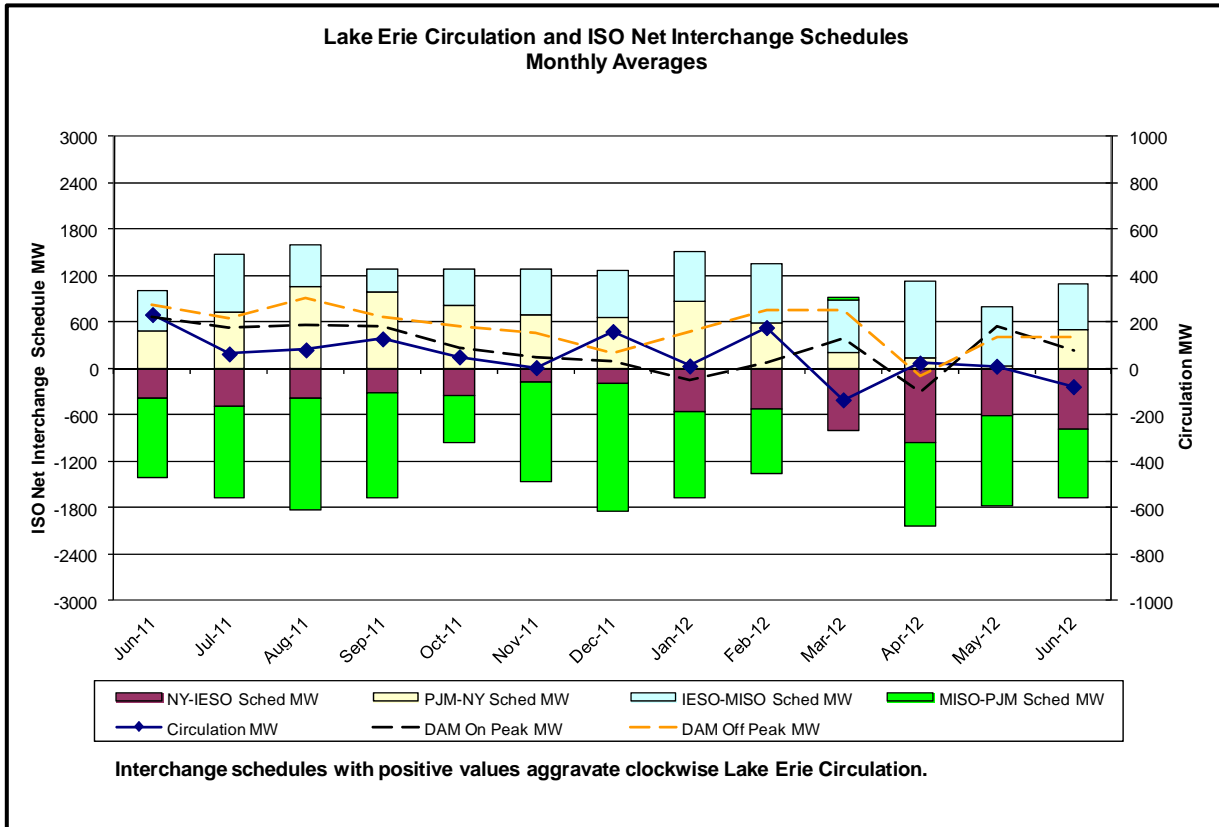




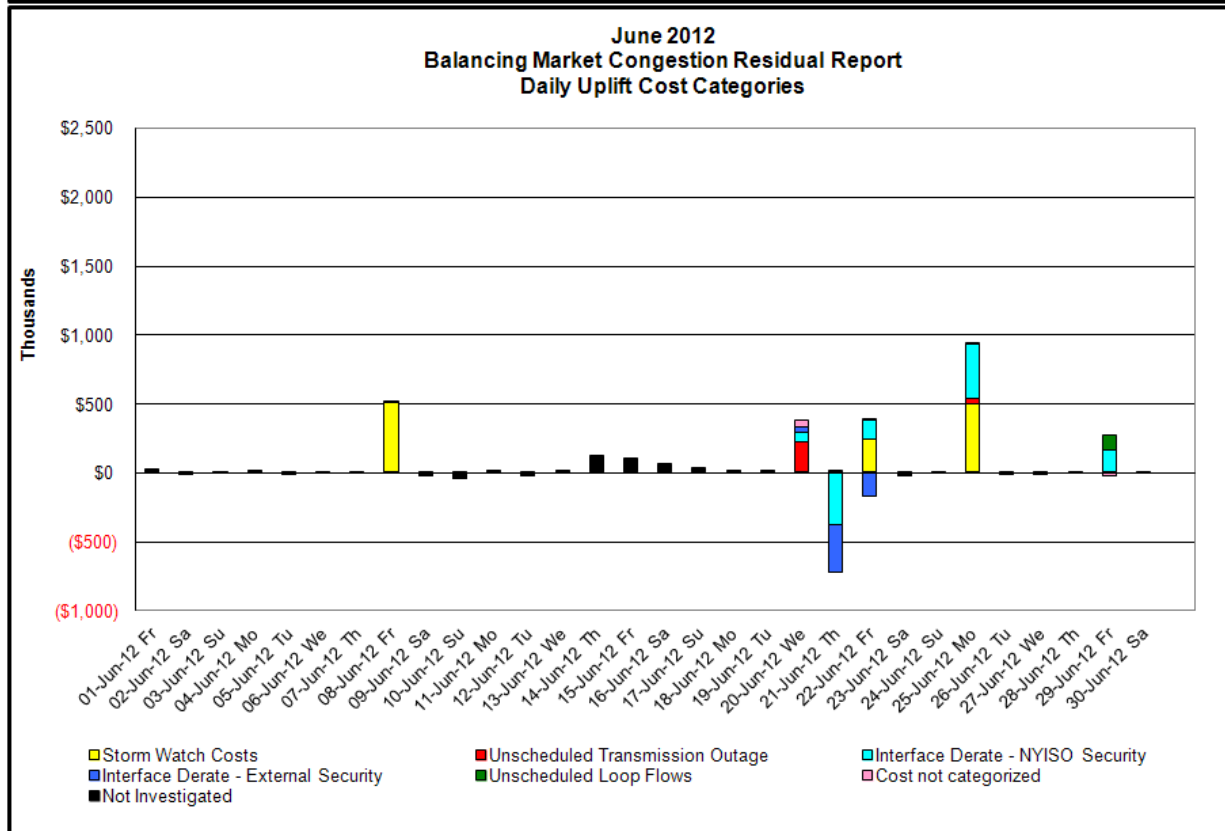
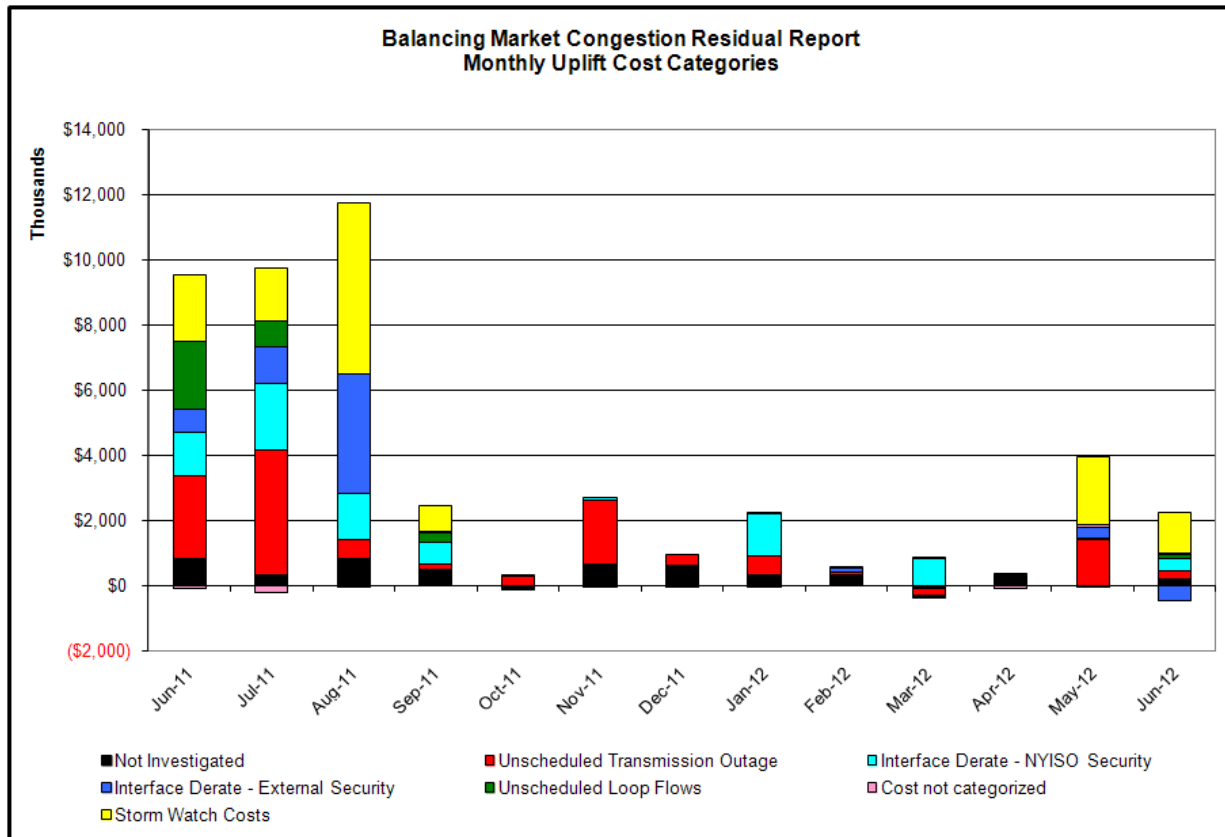








Market Performance Metrics



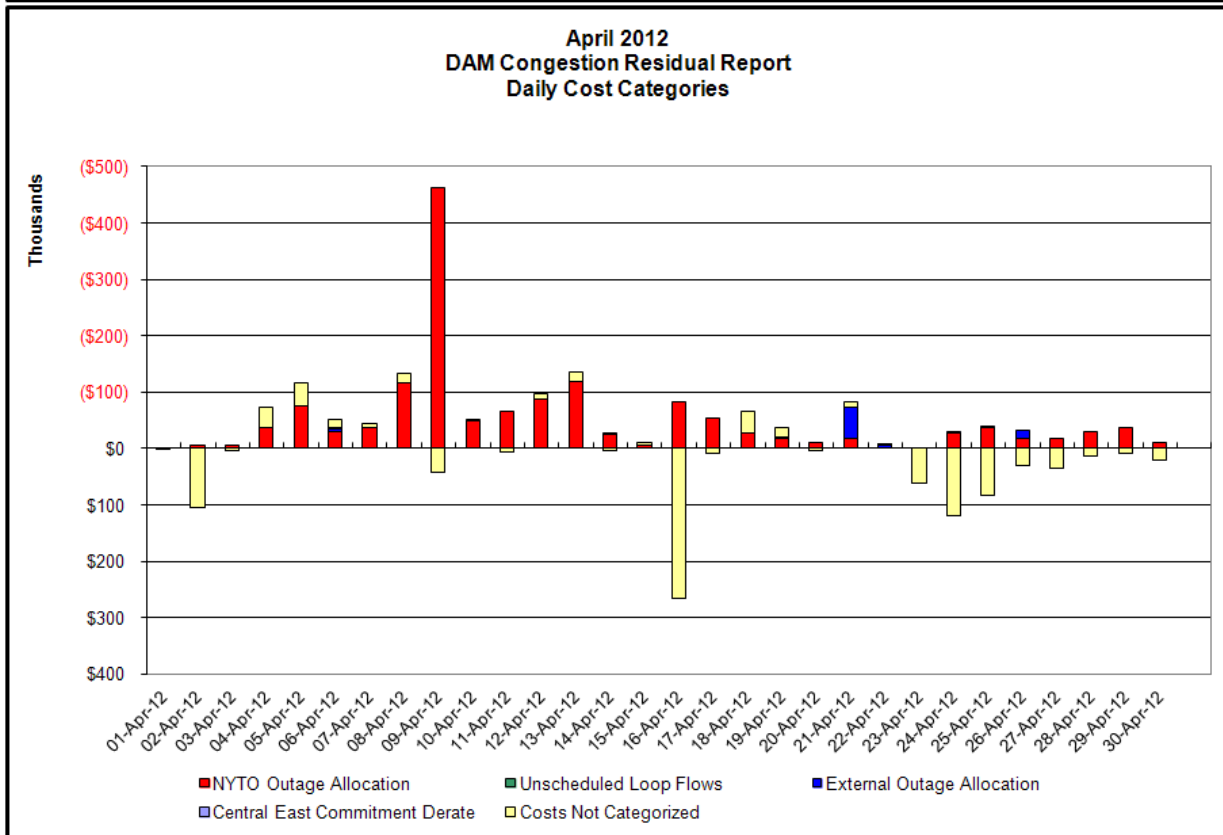
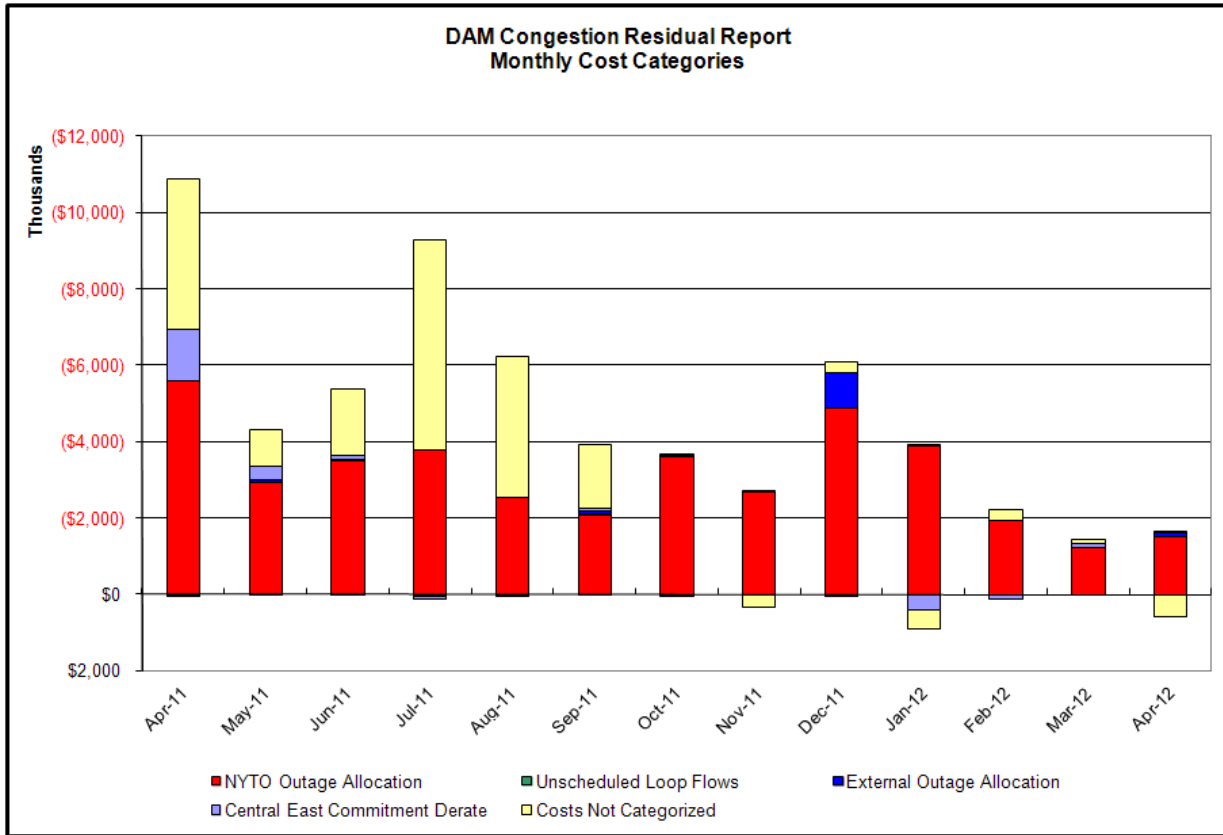
Day's investigated in June: 8, 20, 21, 22, 25, 29			
Event	Date (yyyymm)	Hours	Description
	6/8/2012	14-20	Thunder Storm Alert
	6/20/2012	13, 14	Forced outage Chateauguay-Masena 765kV (#7040)
	6/20/2012	11, 12, 15, 20, 22, 23	NYCA DNI Ramp Limit
	6/20/2012	13, 14	Derate Astoria Annex-East 13th St. 345kV (#Q35M) for I/o B47, Q35L, E13th BK 16&17
	6/20/2012	22, 23	Uprate FreshKills-Willowbrook 138kV (#29212)
	6/20/2012	23	Uprate Gowanus-GoethalsS 345kV (#26)
	6/20/2012	22, 23	Uprate Gowanus-Greenwood 138kV (#42232)
	6/20/2012	13	PJM_AC DNI Ramp Limit
	6/20/2012	22	NE_AC DNI Ramp Limit
	6/20/2012	11	IESO_AC DNI Ramp Limit
	6/21/2012	8-10, 12-18, 20, 23	NYCA DNI Ramp Limit
	6/21/2012	2	Uprate Central East
	6/21/2012	9, 14, 22, 23	Uprate FreshKills-Willowbrook 138kV (#29212)
	6/21/2012	13, 14	Uprate Gowanus-GoethalsS 345kV (#26)
	6/21/2012	9, 22, 23	Uprate Gowanus-Greenwood 138kV (#42232)
	6/21/2012	15, 16	Uprate Northport-Pilgrim 138kV (#679) for I/o Northport-Pilgrim 138kV (677)
	6/21/2012	15, 16	NE_AC DNI Ramp Limit
	6/21/2012	2-8, 19, 22, 23	NE_AC-NY Scheduling Limit
	6/21/2012	9	IESO_AC DNI Ramp Limit
	6/22/2012	13, 14, 18	Thunder Storm Alert
	6/22/2012	6, 16	NYCA DNI Ramp Limit
	6/22/2012	13, 14	Derate Dysinger Easy
	6/22/2012	13, 14	Derate Farragut-Hudson 138kV (#32077)
	6/22/2012	1, 2, 6, 10, 11	Uprate FreshKills-Willowbrook 138kV (#29212)
	6/22/2012	1, 2	Uprate Gowanus-GoethalsS 345kV (#26)
	6/22/2012	1, 2, 6	Uprate Gowanus-Greenwood 138kV (#42232)
	6/22/2012	12	NE_AC DNI Ramp Limit
	6/22/2012	11, 15-17	NE_AC-NY Scheduling Limit
	6/22/2012	6	IESO_AC DNI Ramp Limit
	6/25/2012	7-10, 14-17	Thunder Storm Alert
	6/25/2012	17, 21, 22	Forced outage Shore Road BK #1 and BKR #3410
	6/25/2012	14-16	Derate Farragut-Hudson 138kV (#32077)
	6/29/2012	14-19, 23	Derate Leeds-PleasantValley 345kV (#92) for I/o Athens-PleasantValley 345kV (#91)
	6/29/2012	21, 22	Uprate FreshKills-WillowBrook 138kV (#29212)
	6/29/2012	16-18	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Leeds-Pleasant Valley (#91)

Real-Time Balancing Market Congestion Residual (Uplift Cost) Categories

<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
Storm Watch	Zone J	Thunderstorm Alert (TSA)	TSA Activations
Unscheduled Transmission Outage	Market-wide	Reduction in DAM to RTM transfers related to unscheduled transmission outage	Forced Line Outage, Unit AVR Outages
Interface Derate - NYISO Security	Market-wide	Reduction in DAM to RTM transfers not related to transmission outage	Interface Derates due to RTM voltages
Interface Derate - External Security	Market-wide	Reduction in DAM to RTM transfers related to External Control Area Security Events	TLR Events, External Transaction Curtailments
Unscheduled Loop Flows	Market-wide	Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints	DAM to RTM Clockwise Lake Erie Loop Flows greater than 125 MW

Monthly Balancing Market Congestion Report Assumptions/Notes

- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) At a minimum those days with \$ 100 K/HR, shortfall of \$ 200 K/Day or more, or surplus of \$ 100 K/Day or more are investigated
- 3) Uplift costs associated with multiple event types are apportioned equally by hour
- 4) Investigations began with Dec 2008. Prior months are reported as Not Investigated.



Day-Ahead Market Congestion Residual Categories

<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
NYTO Outage Allocation	Responsible TO	Direct allocation to NYTO's responsible for transmission equipment status change.	DAM scheduled outage for equipment modeled in-service for the TCC Auction.
Unscheduled Loop Flows	All TO by Monthly Allocation Factor	Residual impact of Lake Erie circulation, MW difference between the DAM and TCC Auction.	Lake Erie Loop Flow Assumptions
External Outage Allocation	All TO by Monthly Allocation Factor	Direct allocation to transmission equipment status change caused by change in status of external equipment.	Tie line required out-of-service by TO of neighboring control area.
Central East Commitment Derate	All TO by Monthly Allocation Factor	Reductions in the DAM Central East_VC limit as compared to the TCC Auction limit, which are not associated with transmission line outages.	

