

# ***Operations Performance Metrics Monthly Report***



## ***December 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 January 9, 2012.

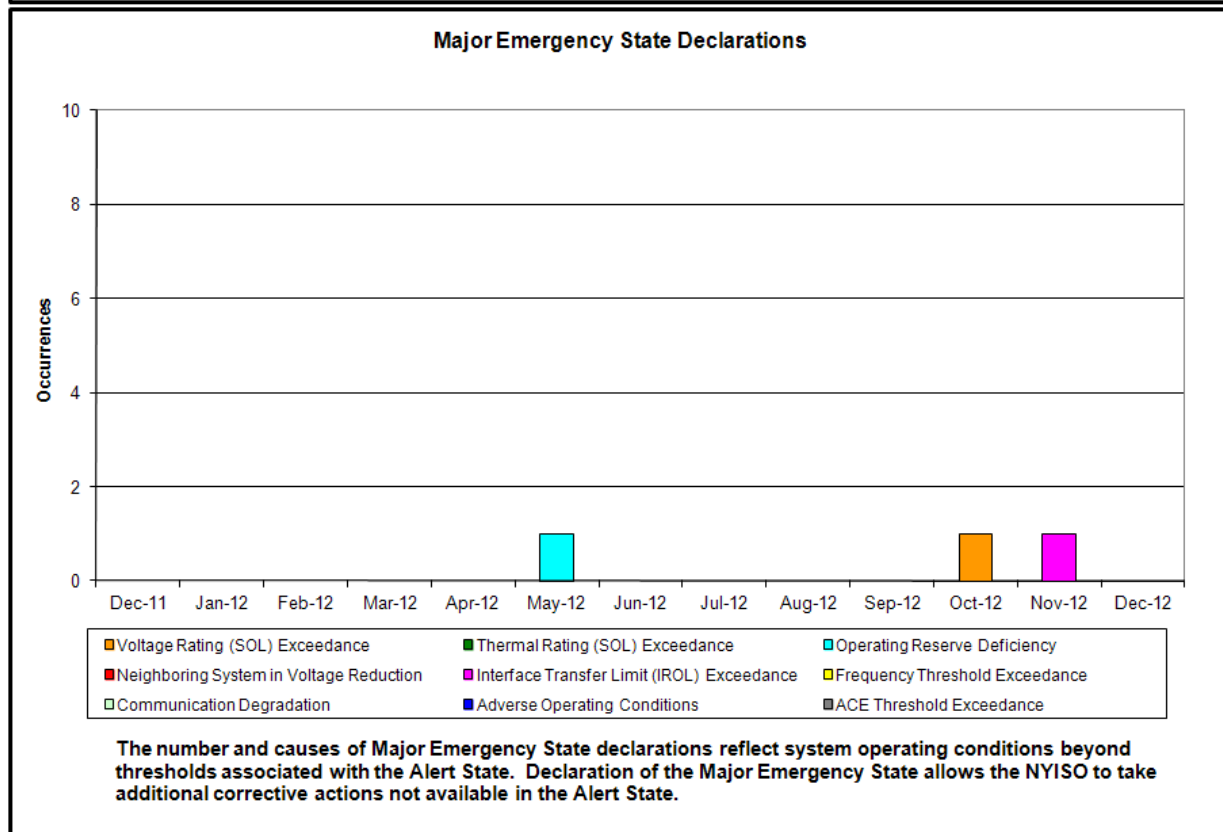
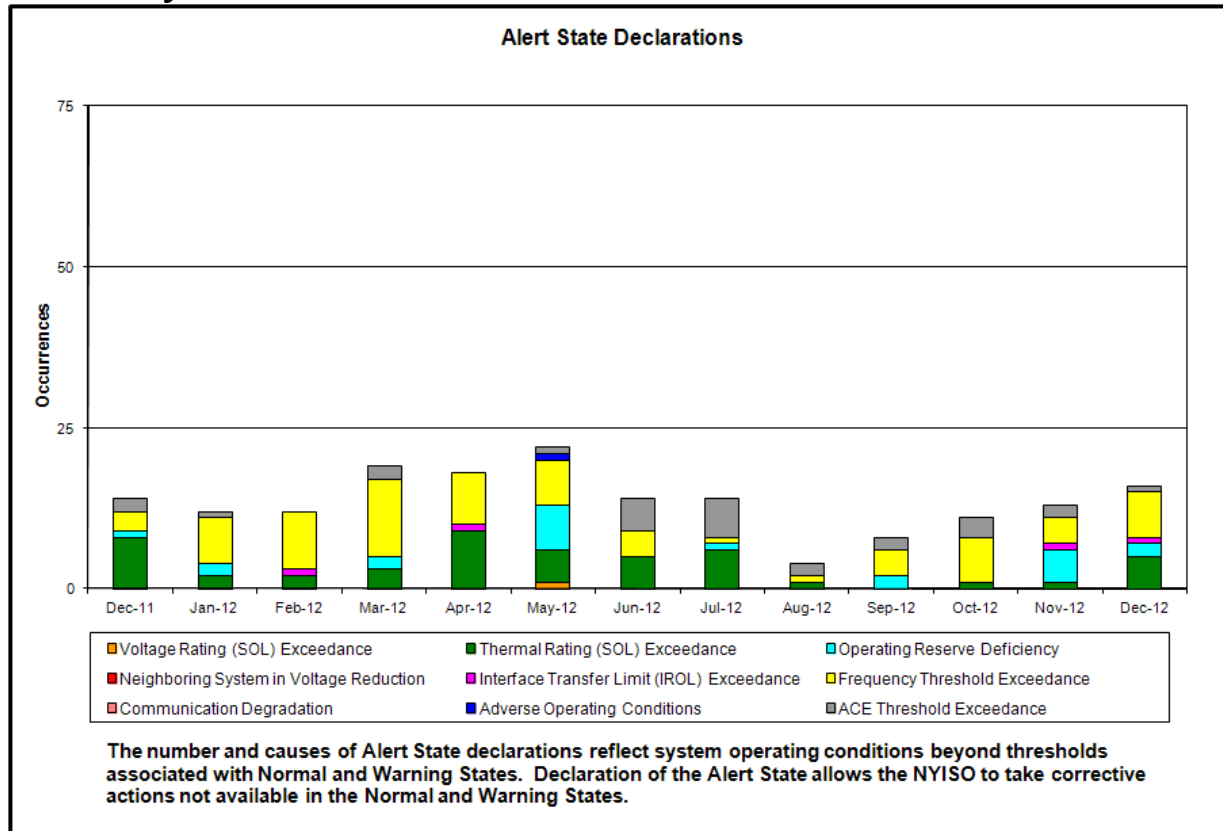
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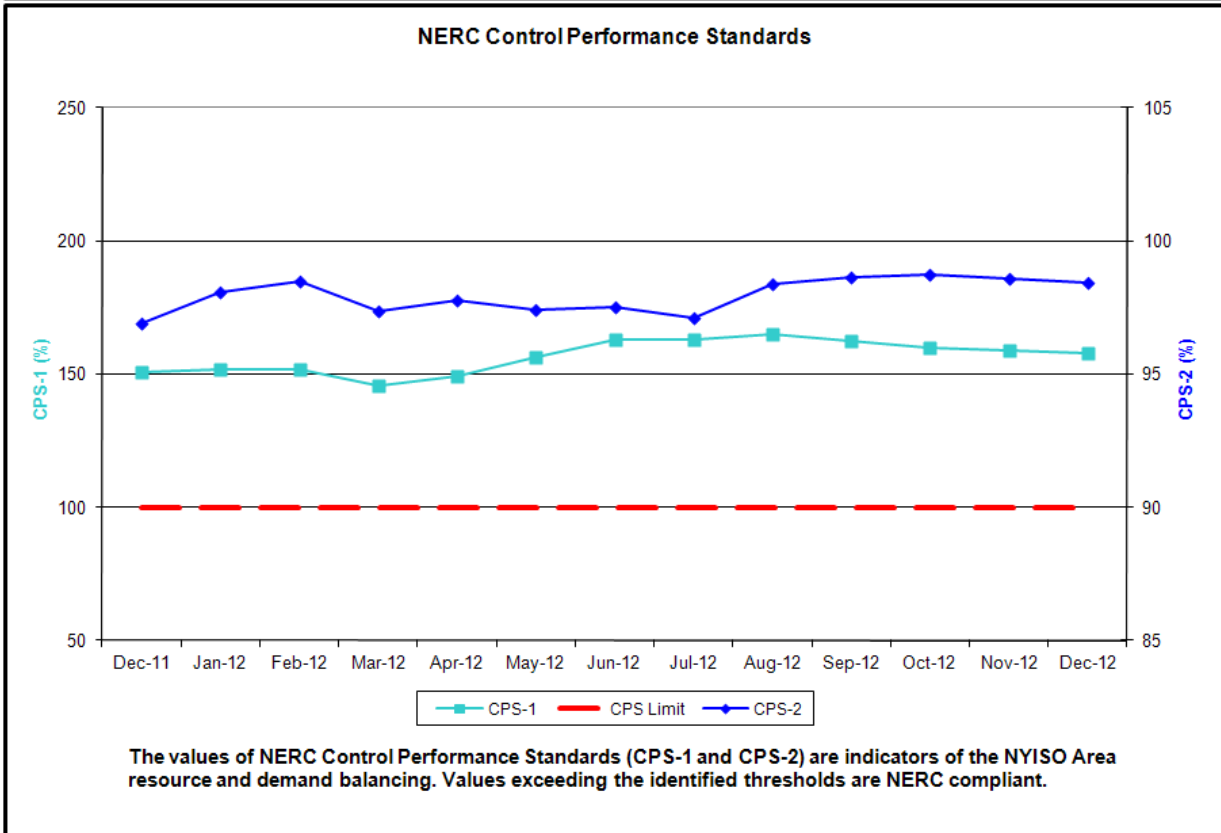
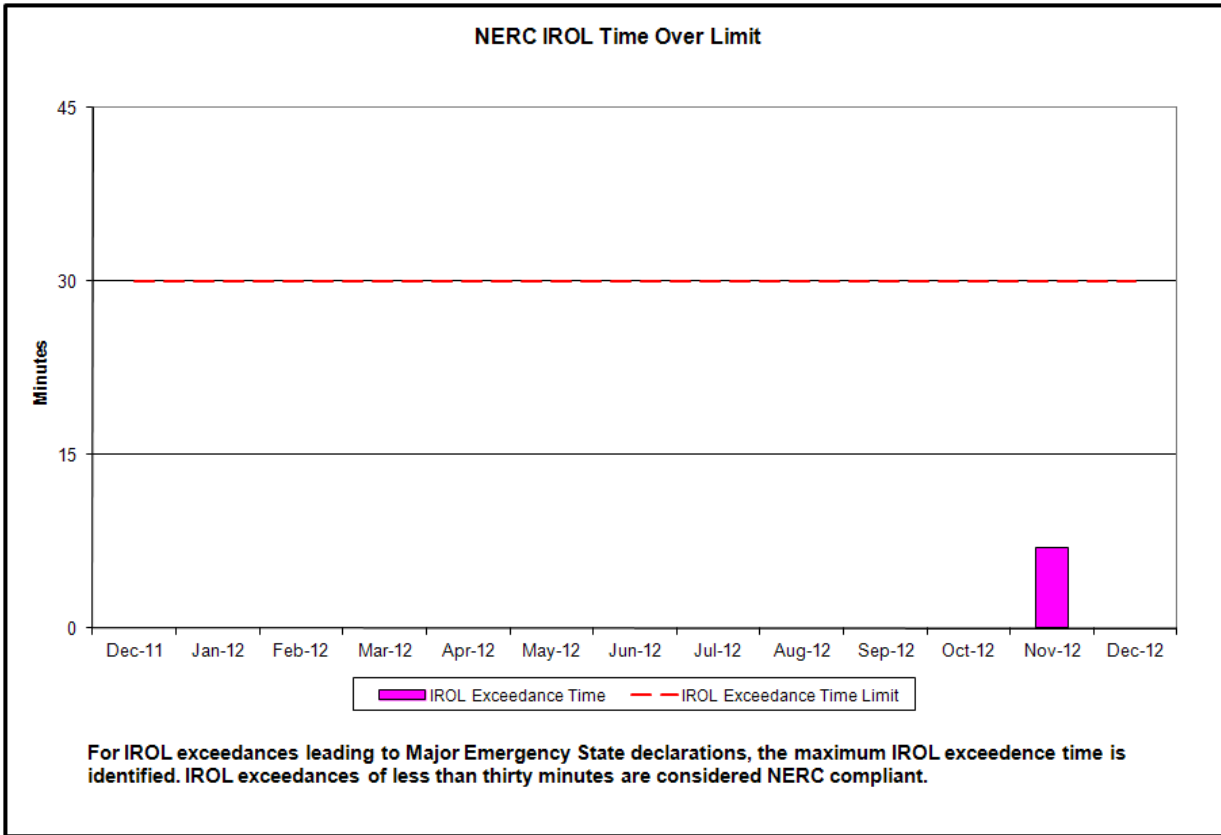
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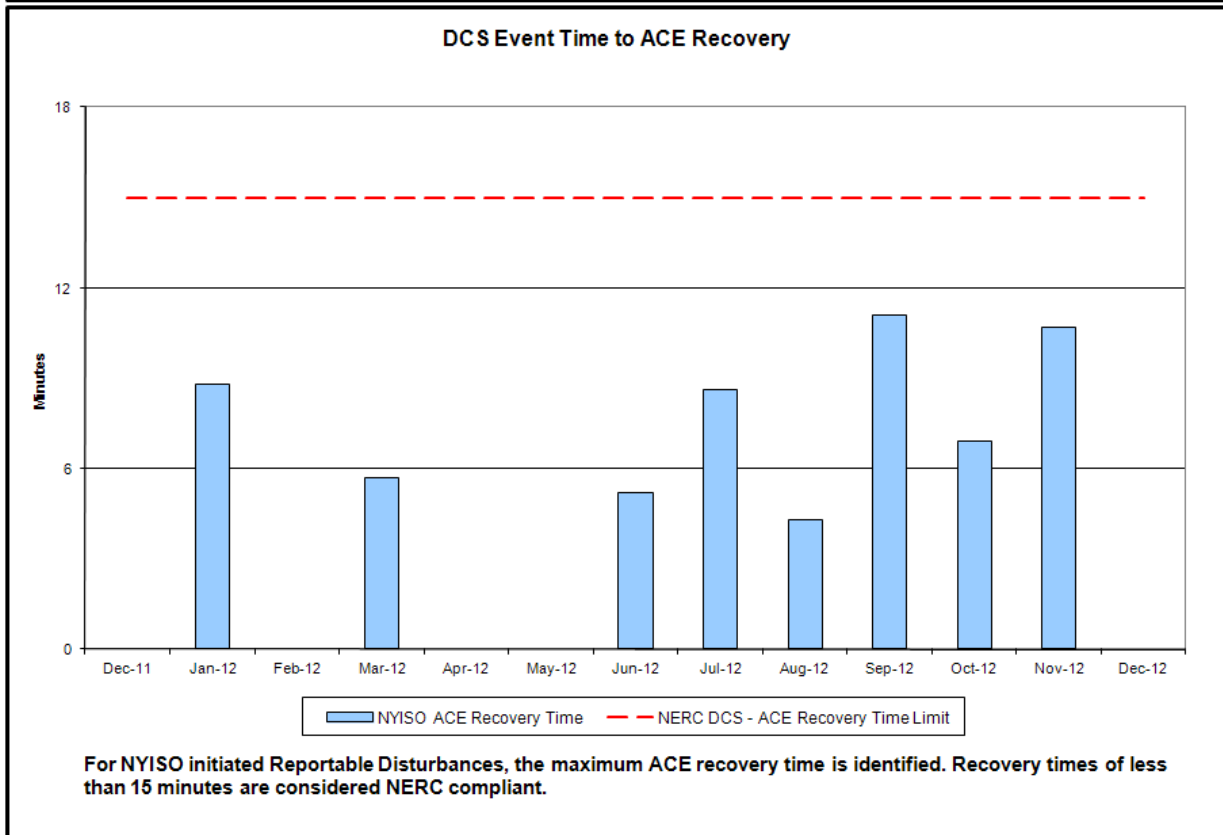
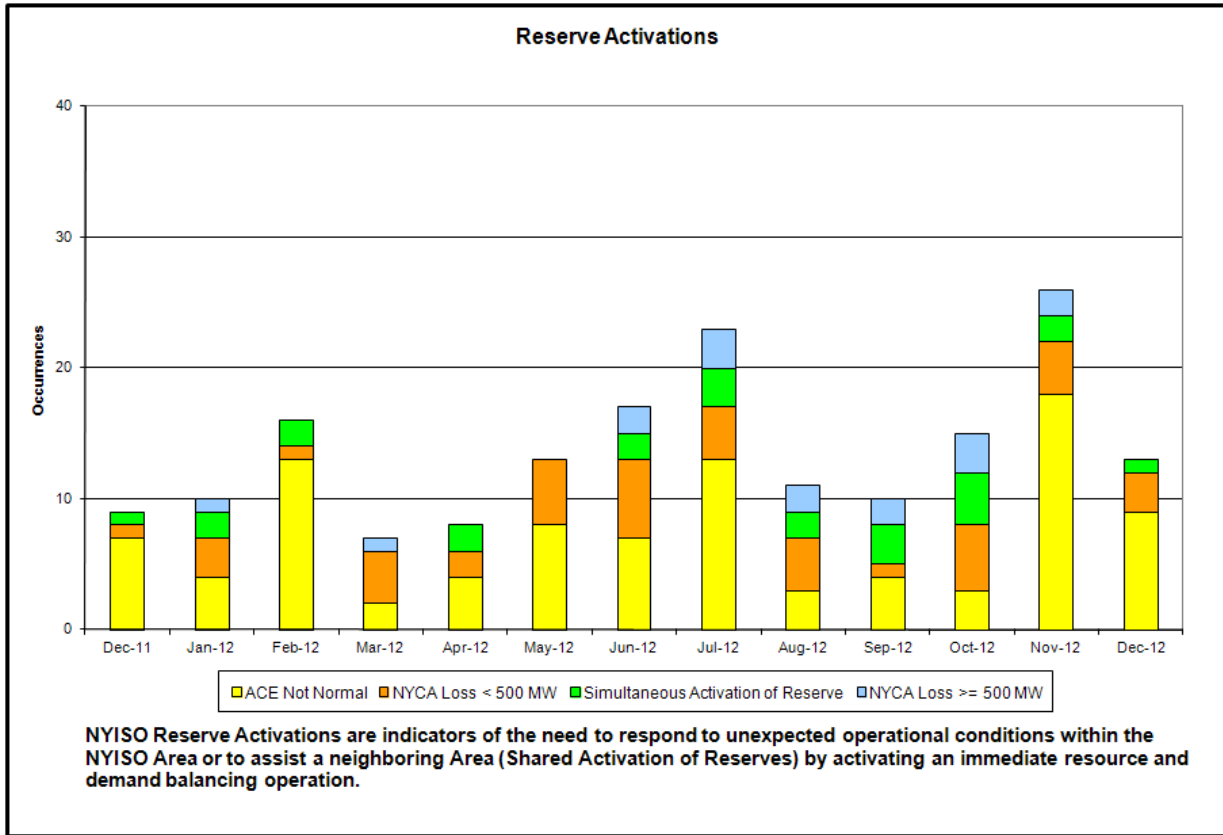
## December 2012 Operations Performance Highlights

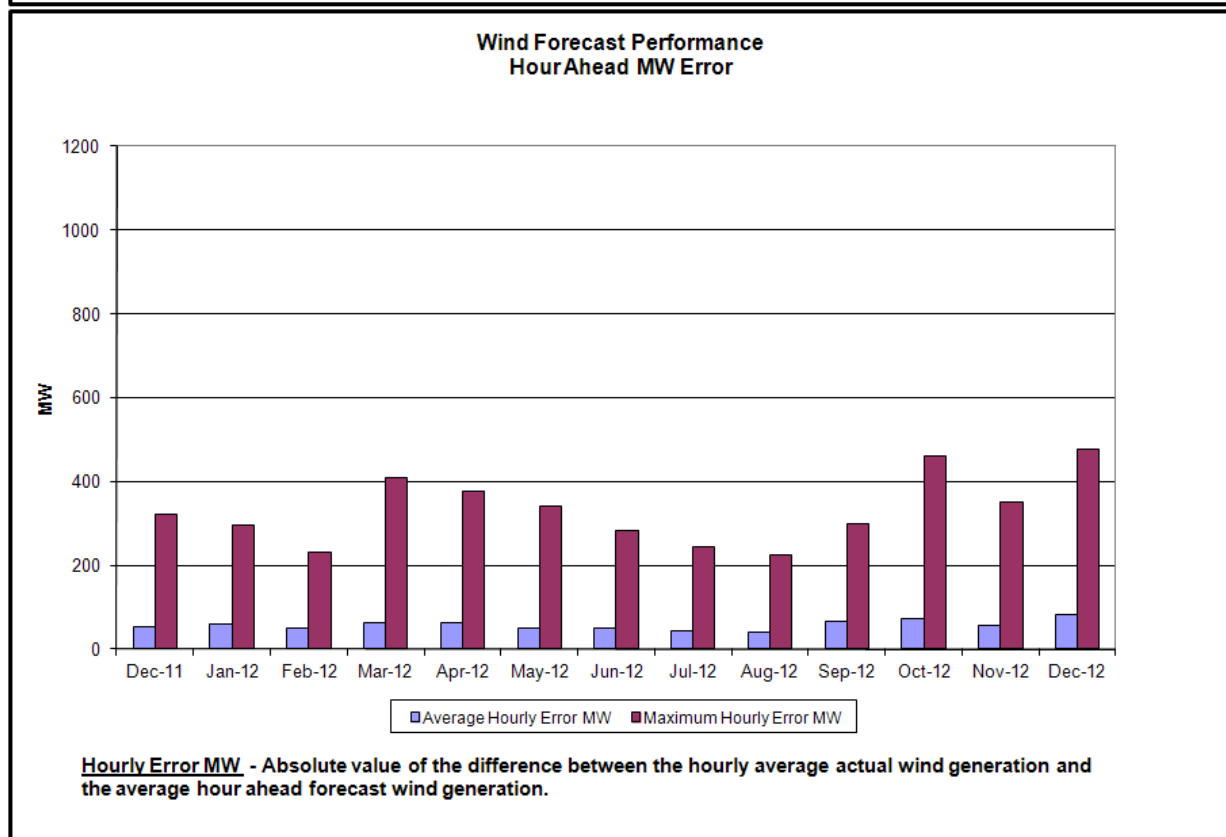
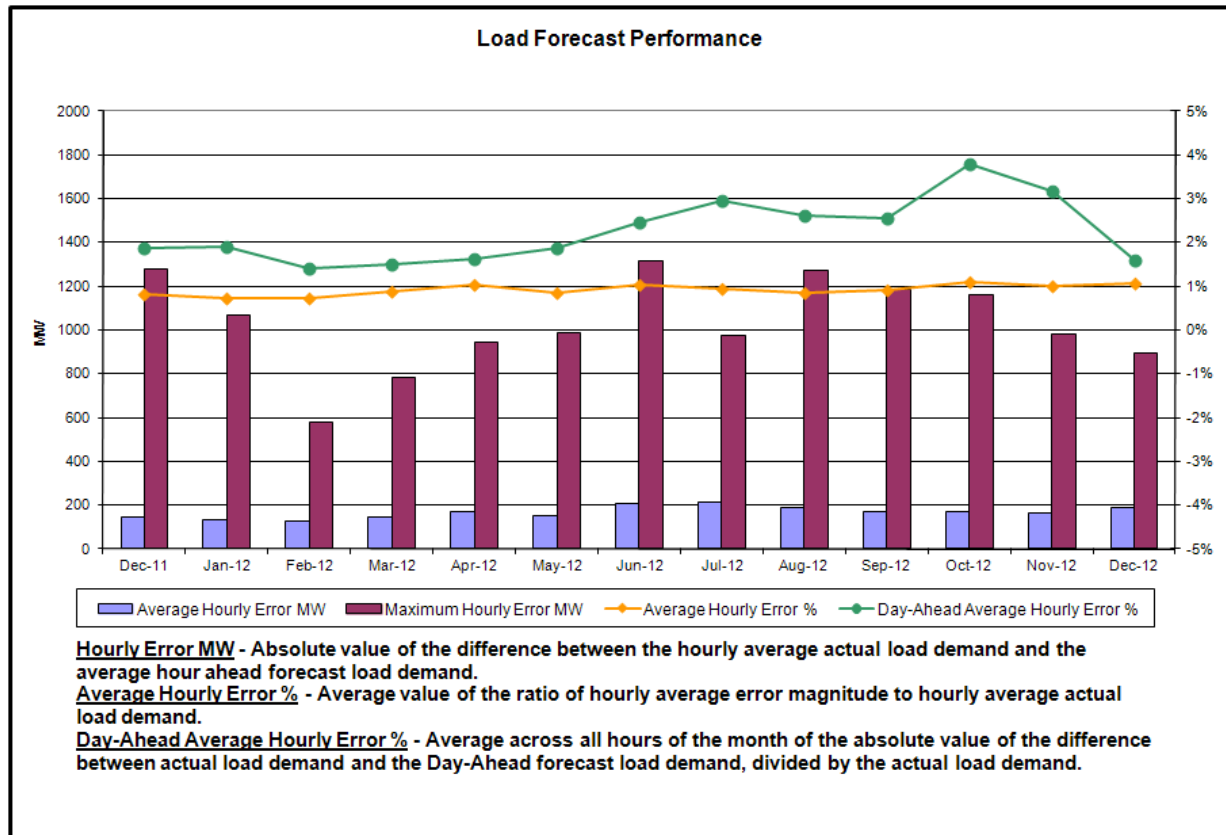
- Peak load of 23,037 MW occurred on 12/26/2012 HB 17
- All-time winter capability period peak load of 25,541 MW occurred on 12/20/2004 HB17
- No hours of Thunder Storm Alerts were declared
- No hours of NERC TLR level 3 curtailments
- The Beck-Packard 230kV (#BP76) circuit returned to service on December 20, after an extended, multi-year outage resulting from equipment failure.
- December 2012 Power Supplier Uplift is less than the values for October and November, the earlier months being affected by Hurricane Sandy.

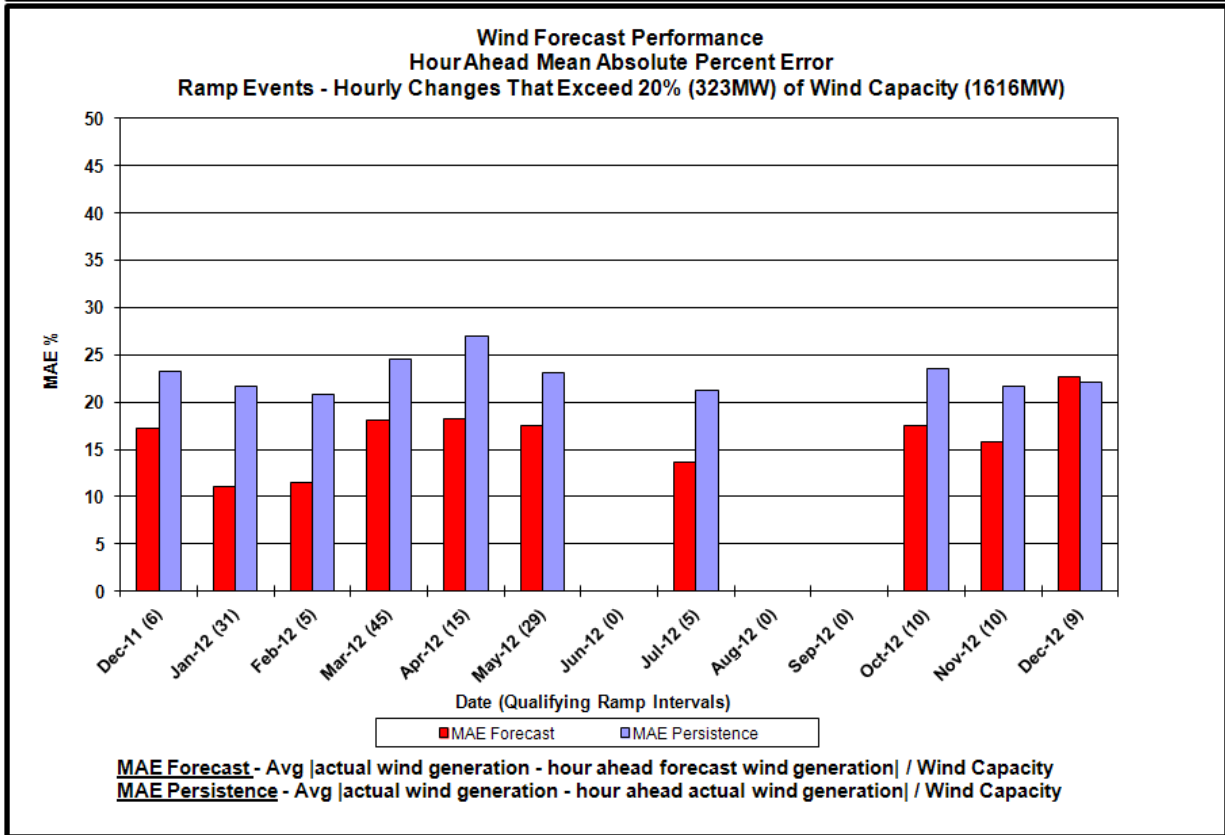
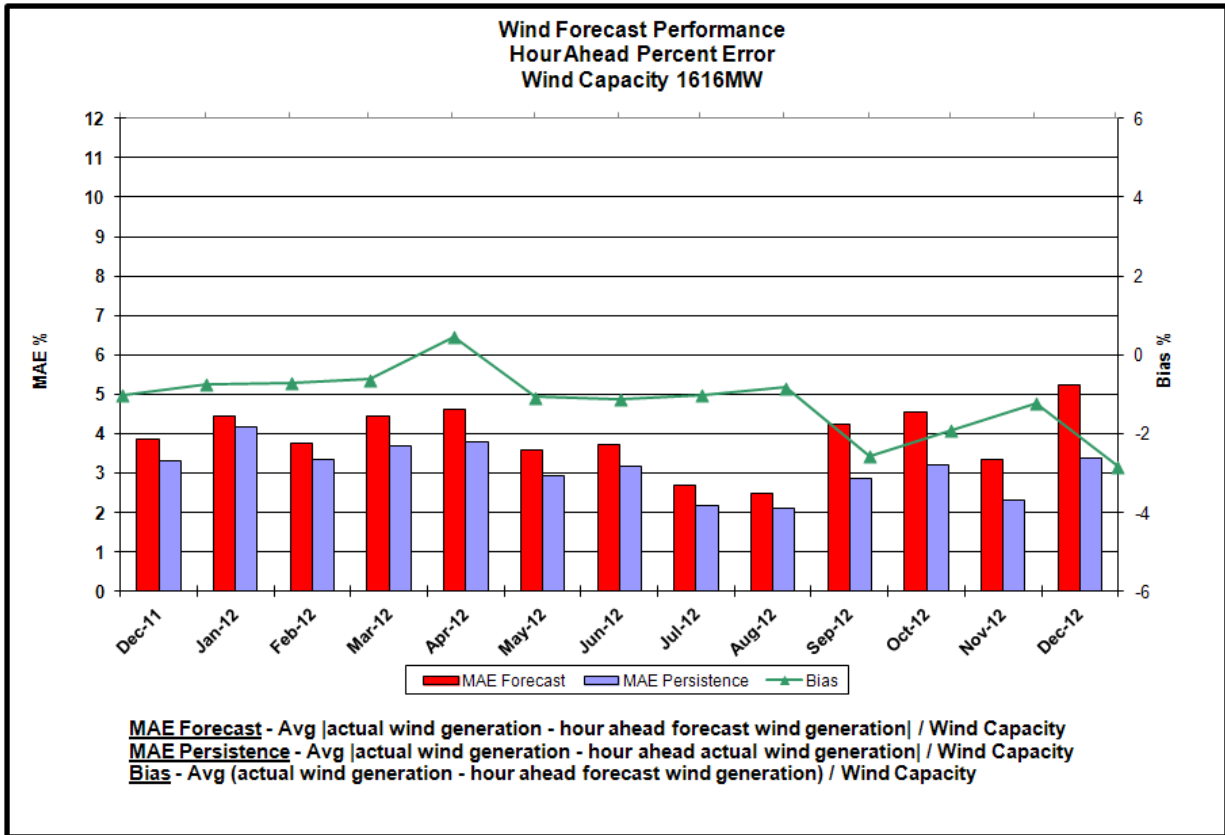
## Reliability Performance Metrics



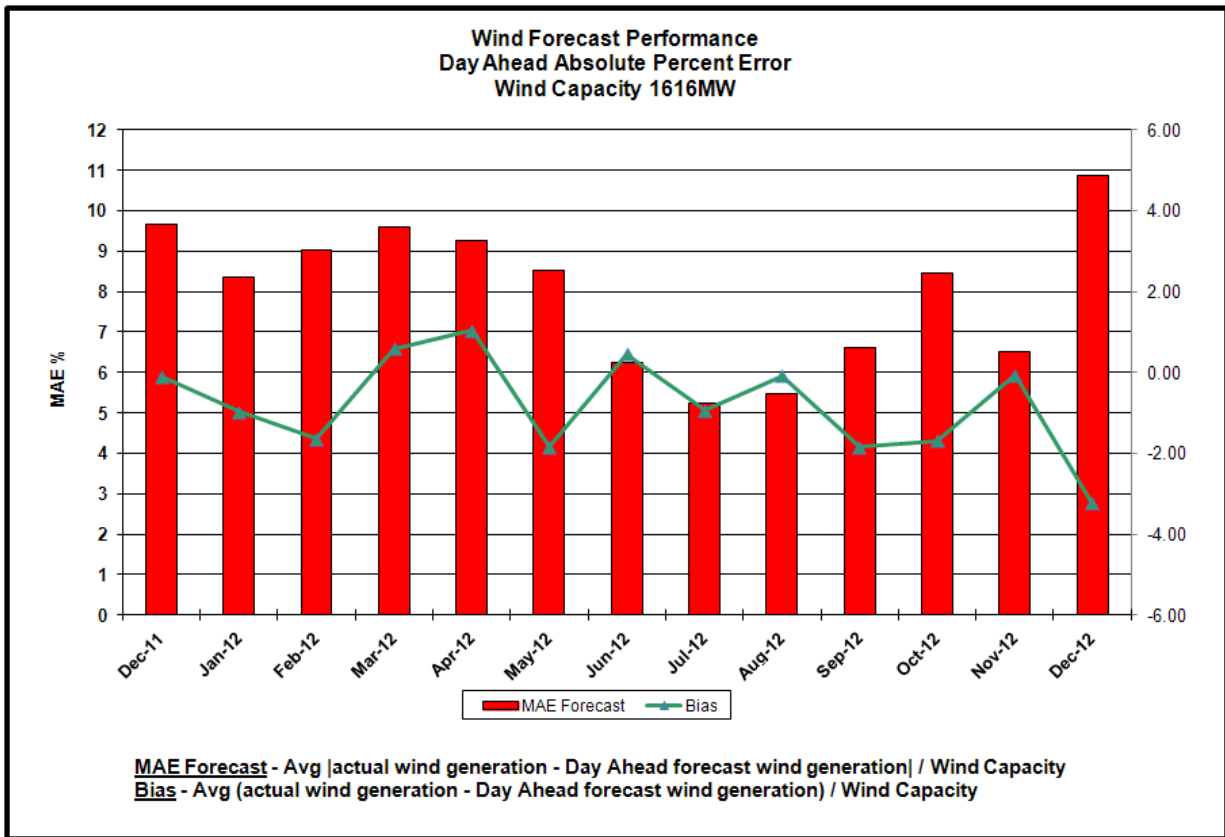


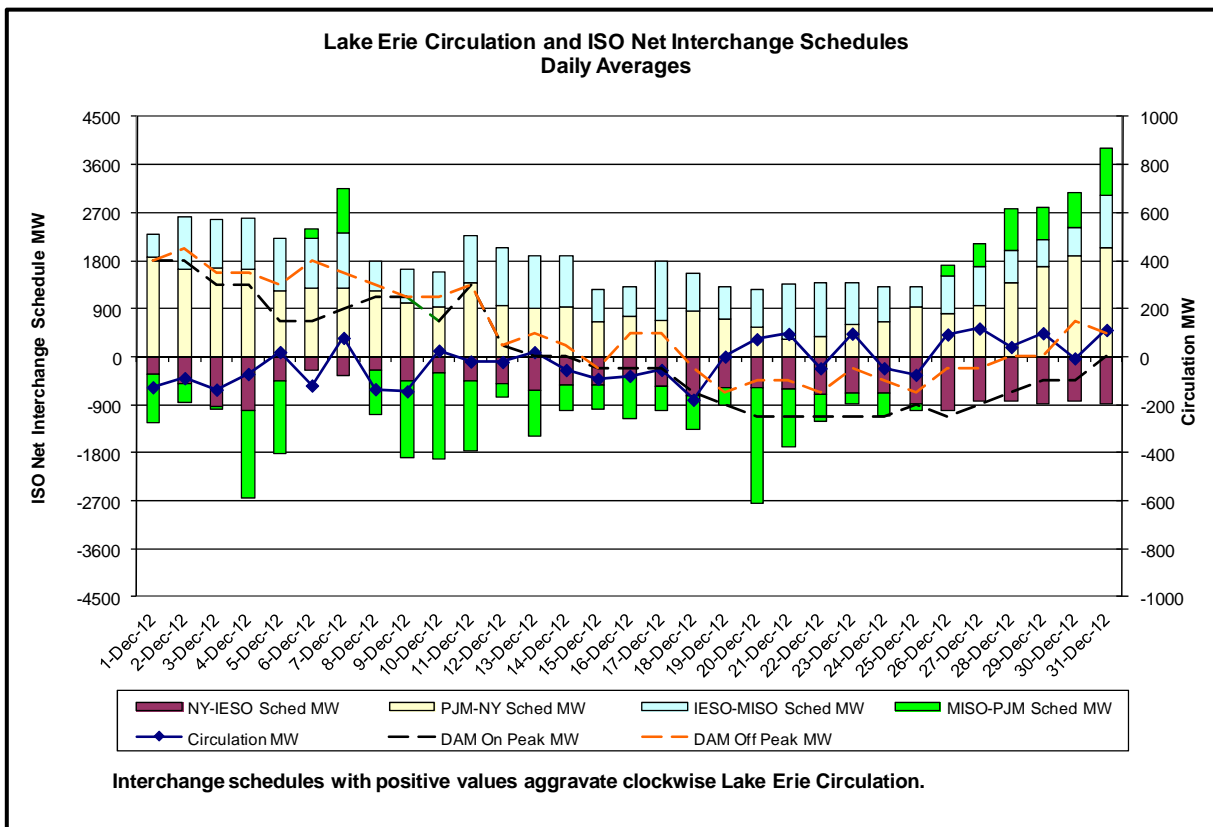
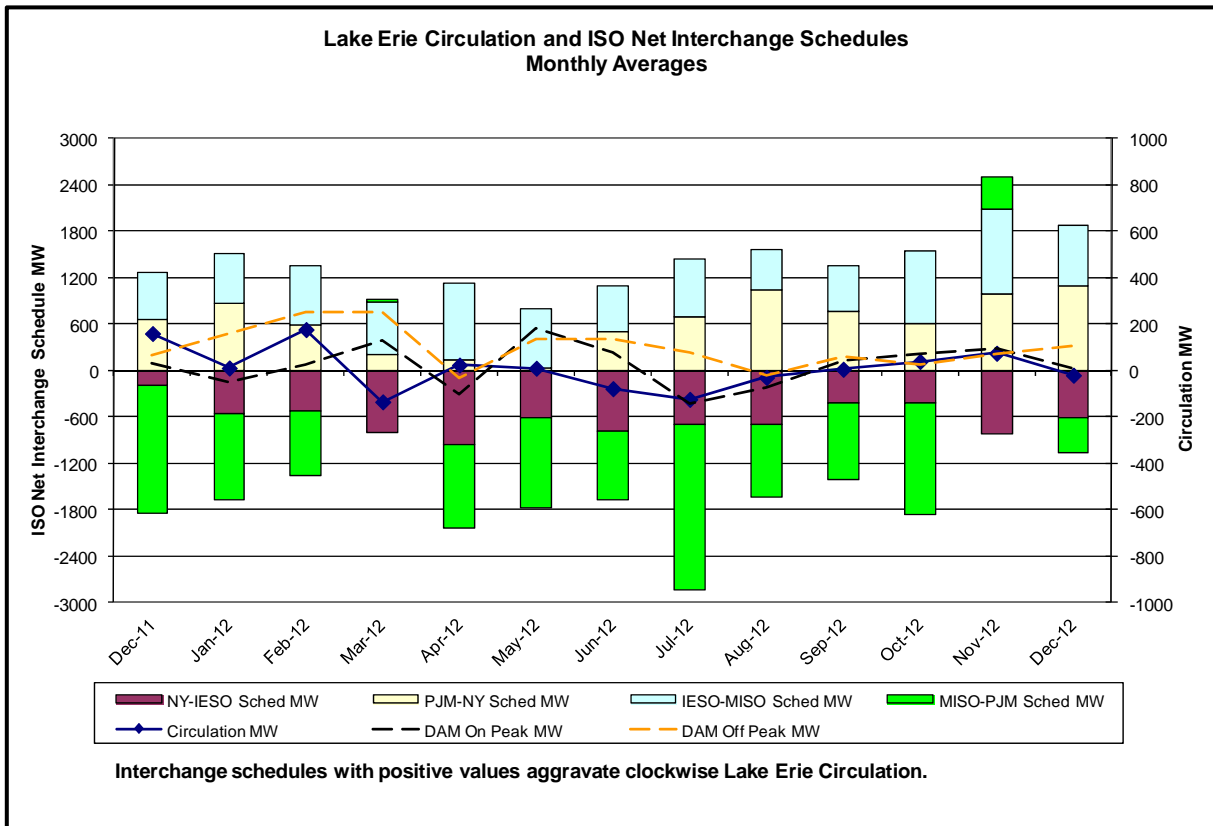




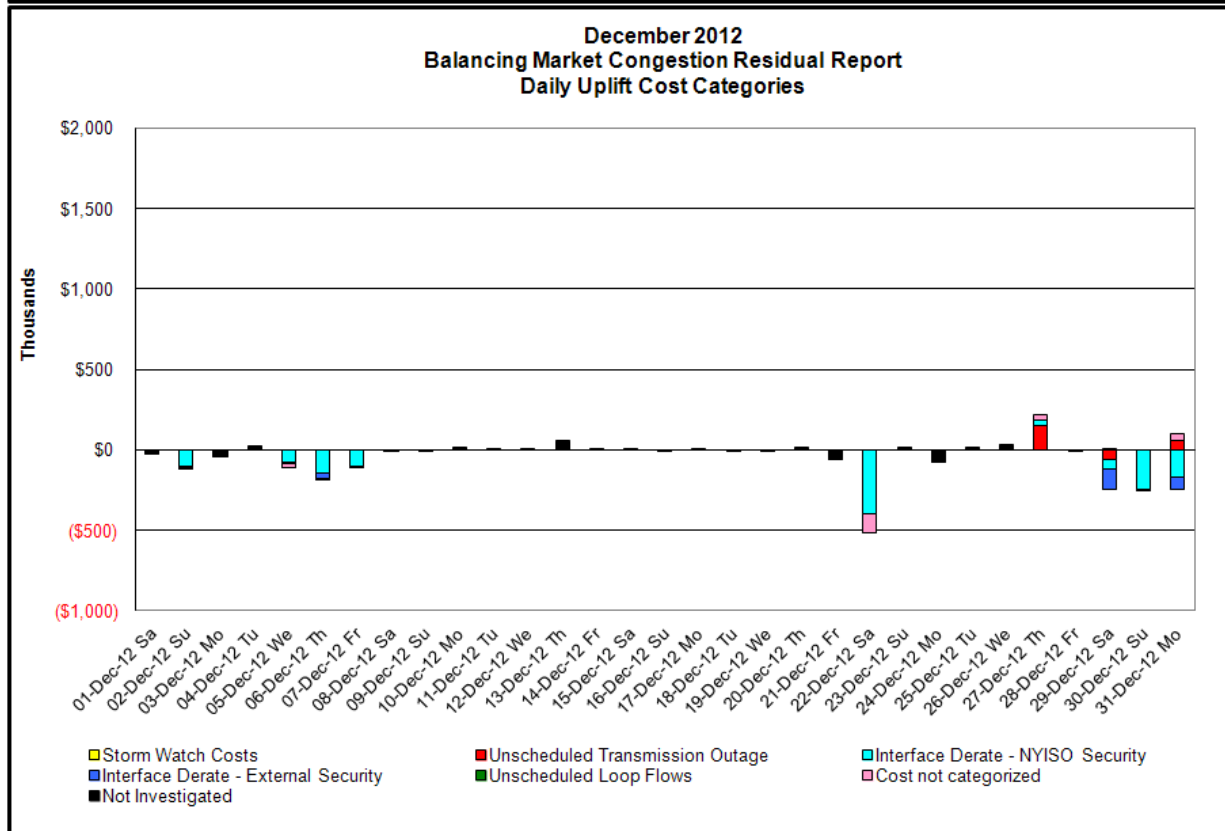
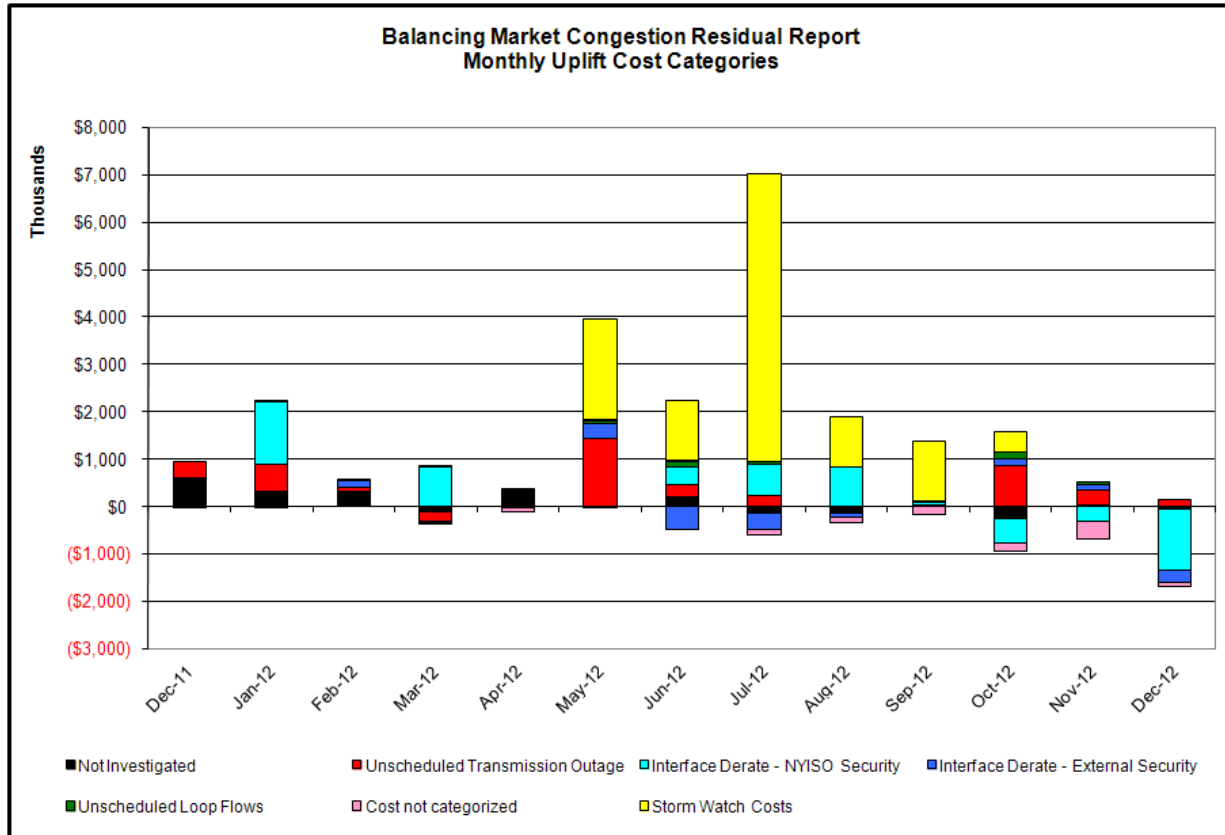








## Market Performance Metrics



Day's investigated in December: 2,5,6,7,22,27,29,30,31

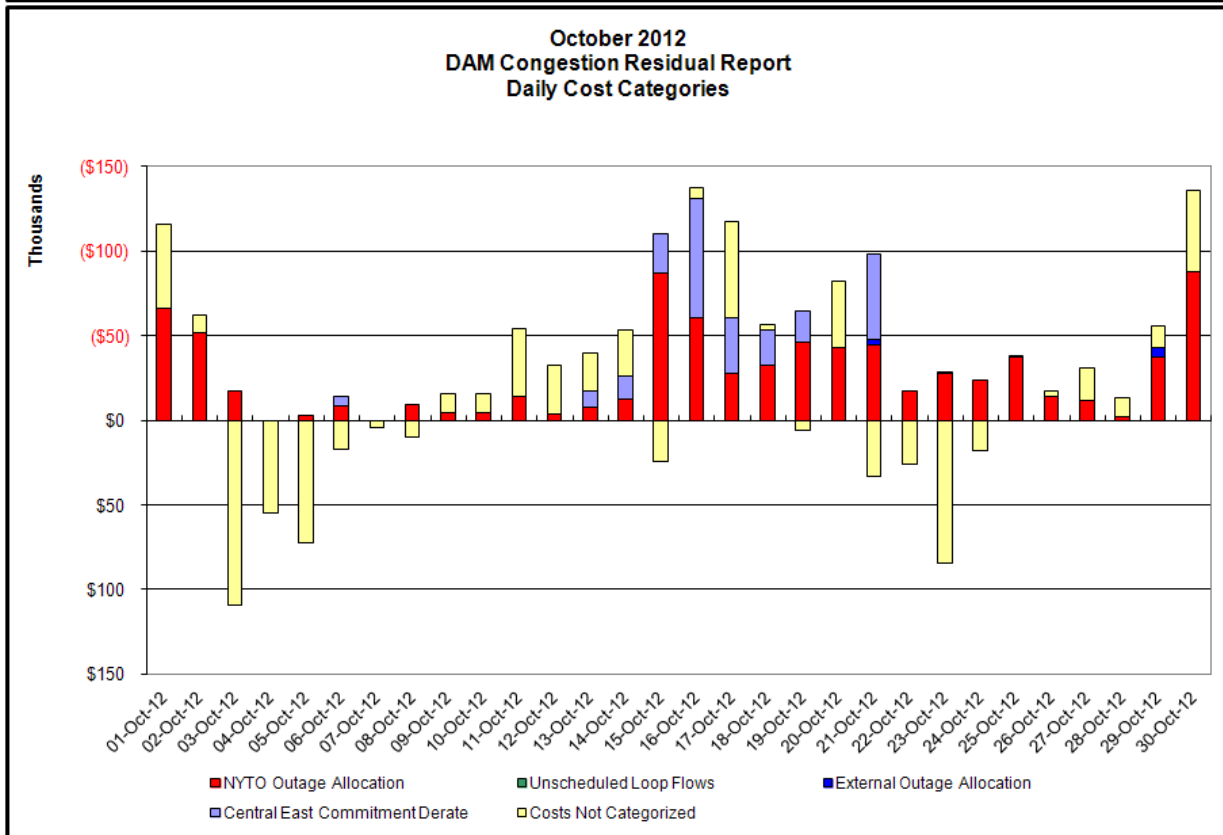
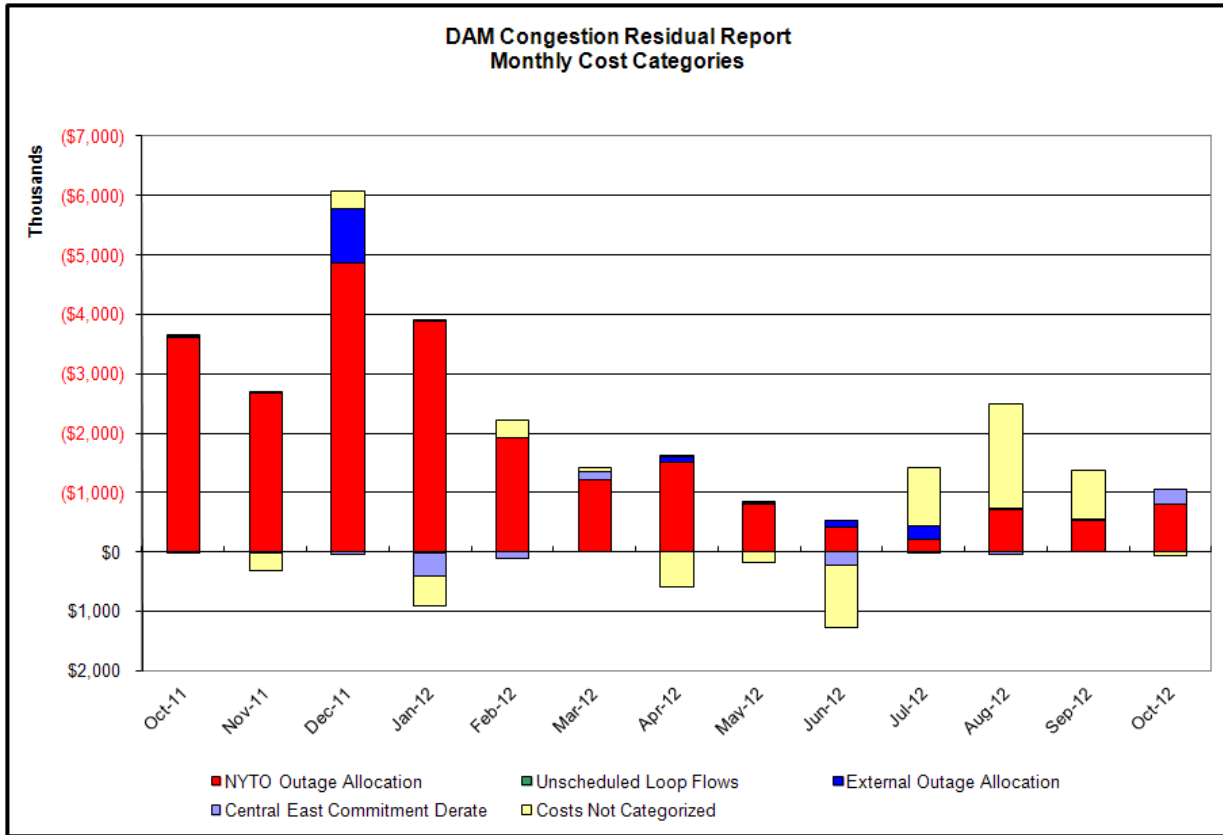
Event	Date (yyyymmdd)	Hours	Description
	12/2/2012	0-9,11,12,16-19,21	Uprate Central East
	12/2/2012	18	HQ_CHAT-NY Scheduling Limit
	12/5/2012	1,6,7,12-16,18-23	Uprate Central East
	12/5/2012	11,12,15,16	Uprate West 49th St.-Sprainbrook 345kV (#M51) for I/o SCB: SPBK (RS3):W75&99941
	12/5/2012	16	PJM_AC DNI Ramp Limit
	12/6/2012	23	NYCA DNI Ramp Limit
	12/6/2012	0-8,12-15,17-23	Uprate Central East
	12/6/2012	13-16,19-21	NE_AC-NY Scheduling Limit
		0-2,6,7,9-11,13-16,18-20,23	Uprate Central East
	12/22/2012	2-4,7-12,16-22	Uprate Central East
	12/22/2012	17	Uprate Foxhills-Willowbrook 138kV (#29211-1)
	12/22/2012	6,14	NYCA DNI Ramp Limit
	12/27/2012	9-13	Forced outage East Garden City 345_138kV (#BK 1) and East Garden City 345C_345A (#PAR 1)
	12/27/2012	19	NYCA DNI Ramp Limit
	12/27/2012	19	Derate Greenwood-Vernon 138kV (#31231) for I/o TWR:Goethals 22,21,A2253
	12/29/2012	9-17,20-22	Early return East Garden City - Valley Stream 138kV (#262)
	12/29/2012	9-15,17-20	Uprate Central East
	12/29/2012	0,2-5,8-23	NE_AC-NY Scheduling Limit
	12/30/2012	1,10-21	Uprate Central East
	12/30/2012	10,11,13	Uprate Foxhills-Willowbrook 138kV (#29211-1)
	12/30/2012	10,11,13	Uprate Foxhills-Willowbrook 138kV (#29212-1)
	12/30/2012	11-13	Uprate Freshkills-Willowbrook 138kV (#29211-2)
	12/30/2012	13	Uprate Foxhills-Willowbrook 138kV (#29212-1) for I/o Foxhills-Willowbrook 138kV (#29211-1)
	12/31/2012	16-18	Forced outage East Garden City 345/138 kV (#BK 1) and East Garden City 345C_345A (#PAR 1)
	12/31/2012	0,4,8-15,21-23	Uprate Central East
	12/31/2012	10-12,22,23	Uprate Foxhills-Willowbrook 138kV (#29212)
	12/31/2012	4,21-23	NE_AC-NY Scheduling Limit
	12/31/2012	12-14	PJM_AC-NY Scheduling Limit

**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.	

