

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



## ***November 2011 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 December 8, 2011.

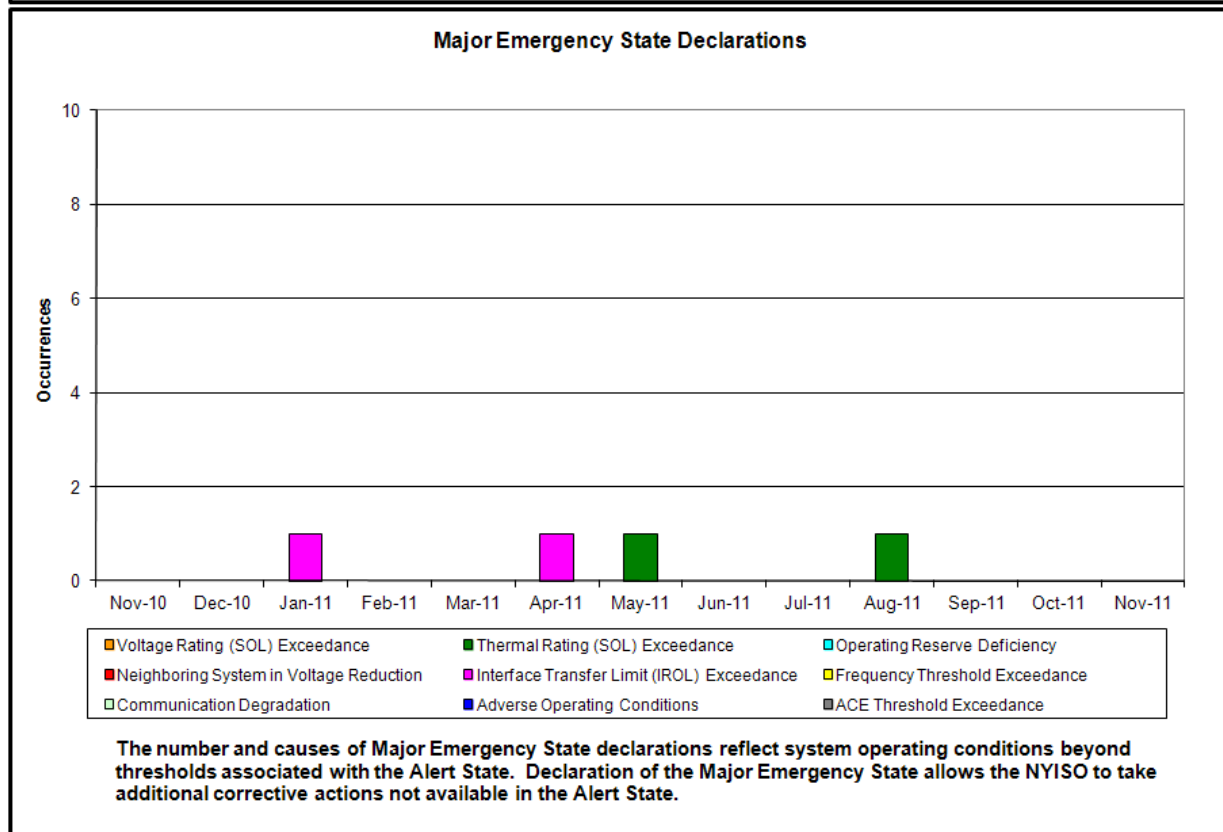
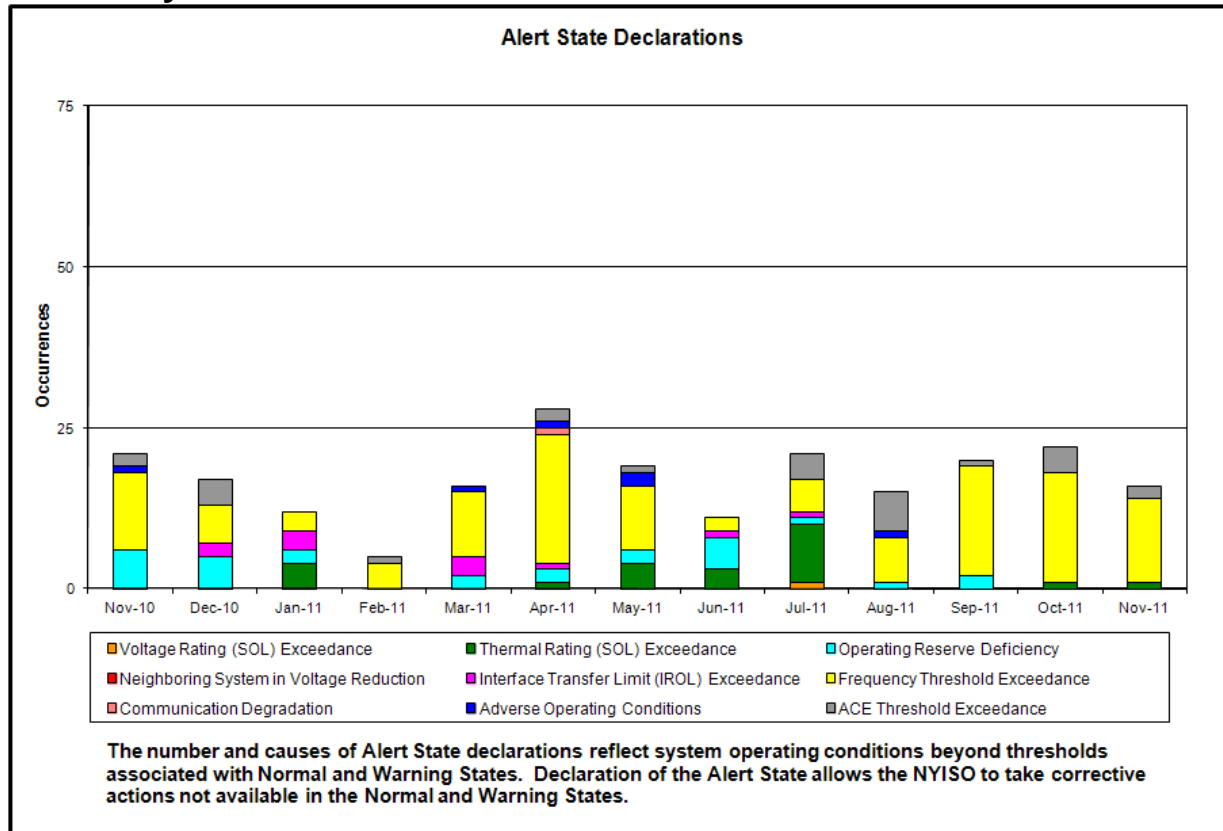
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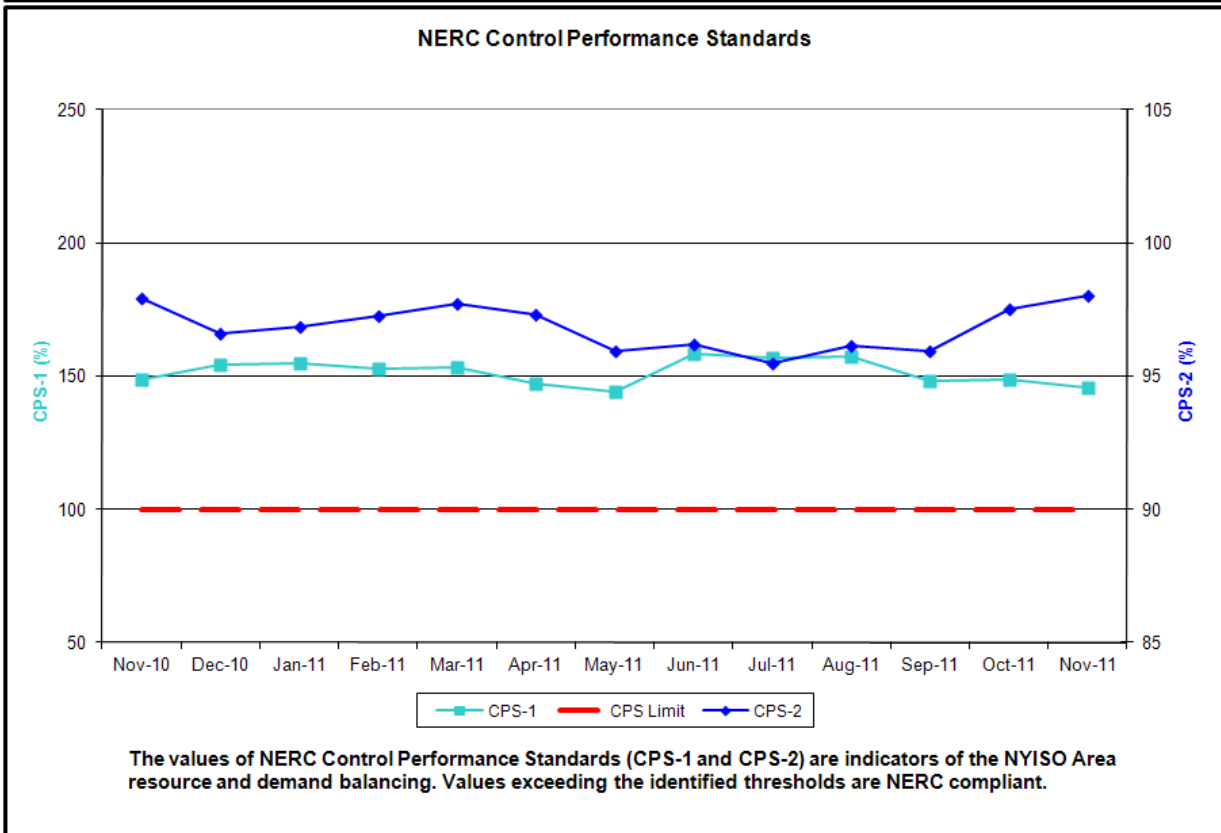
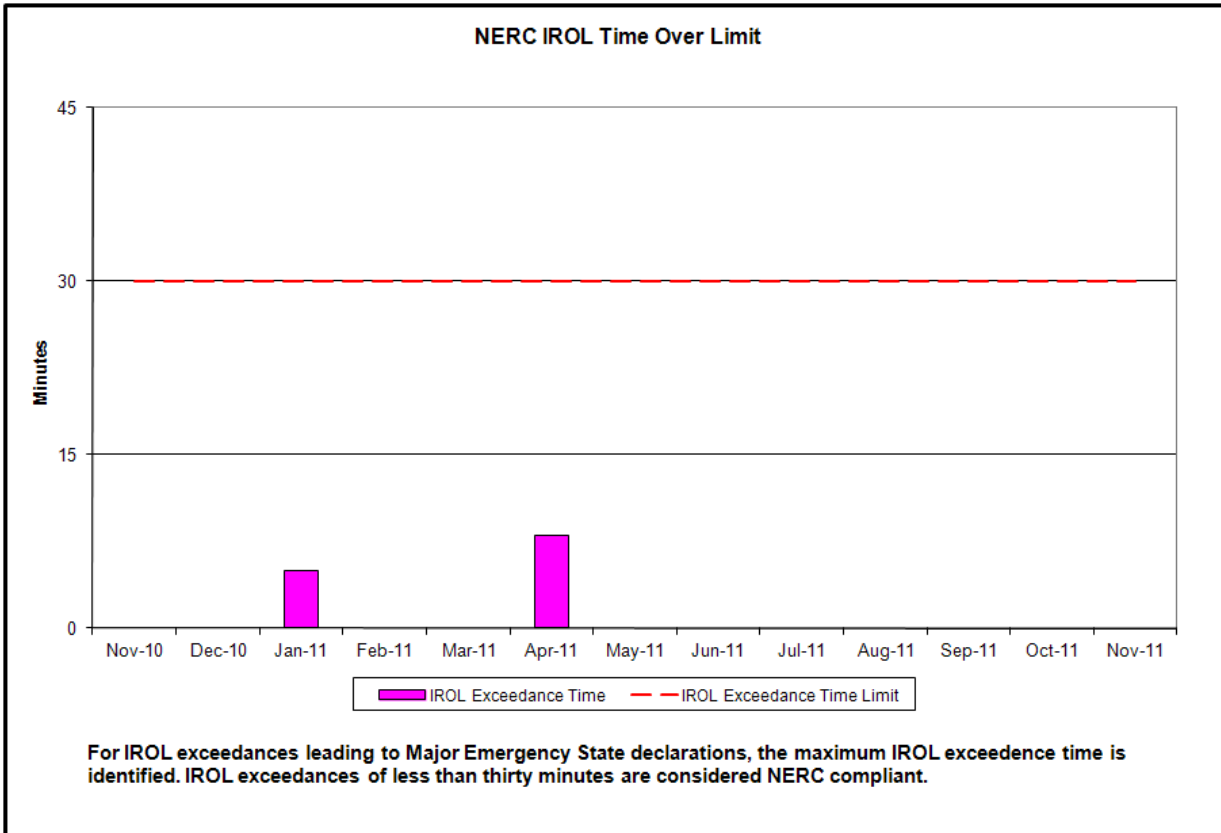
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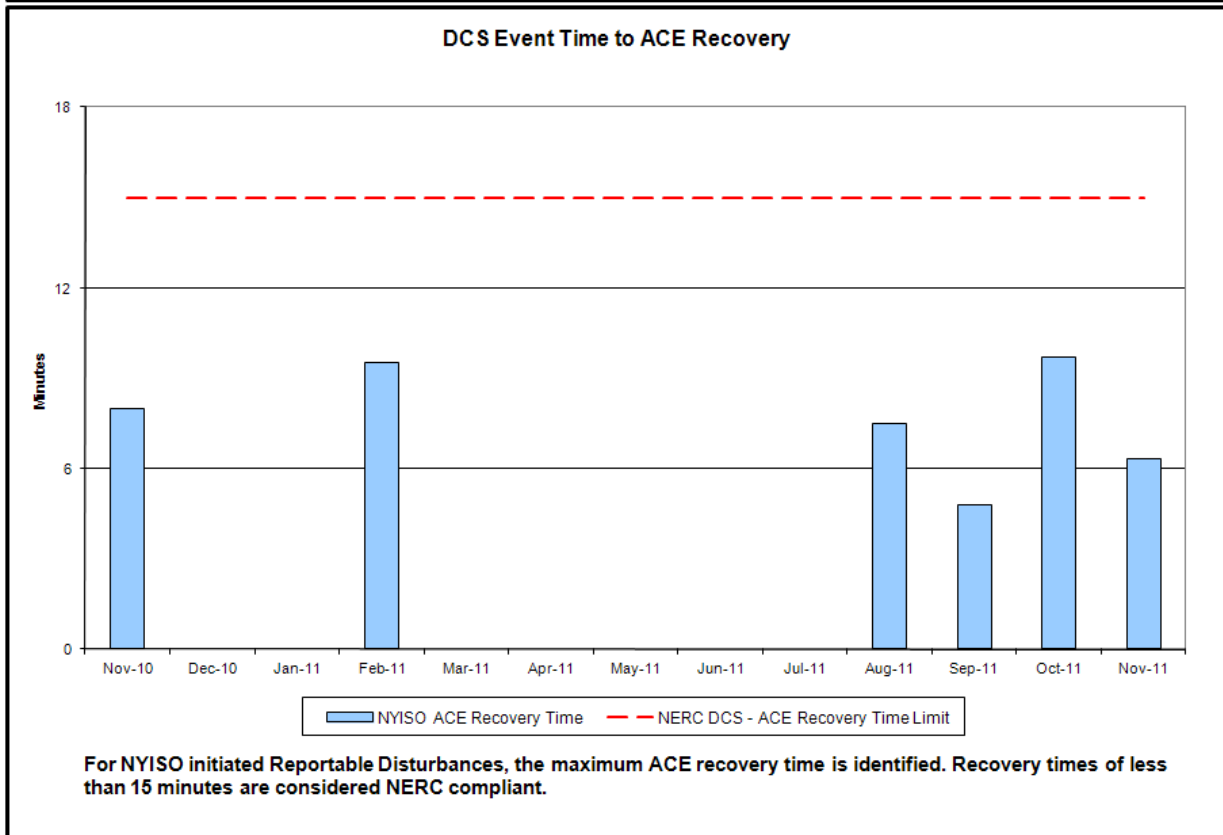
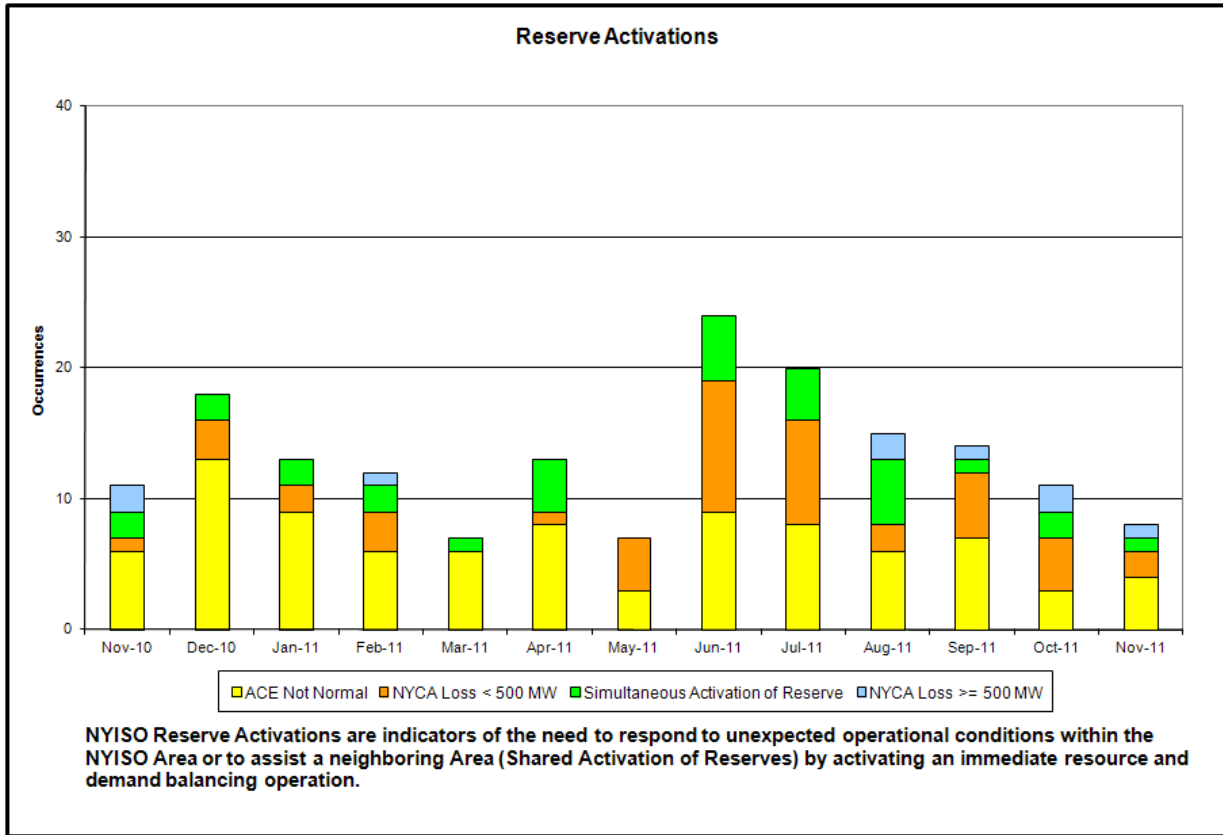
## November 2011 Operations Performance Highlights

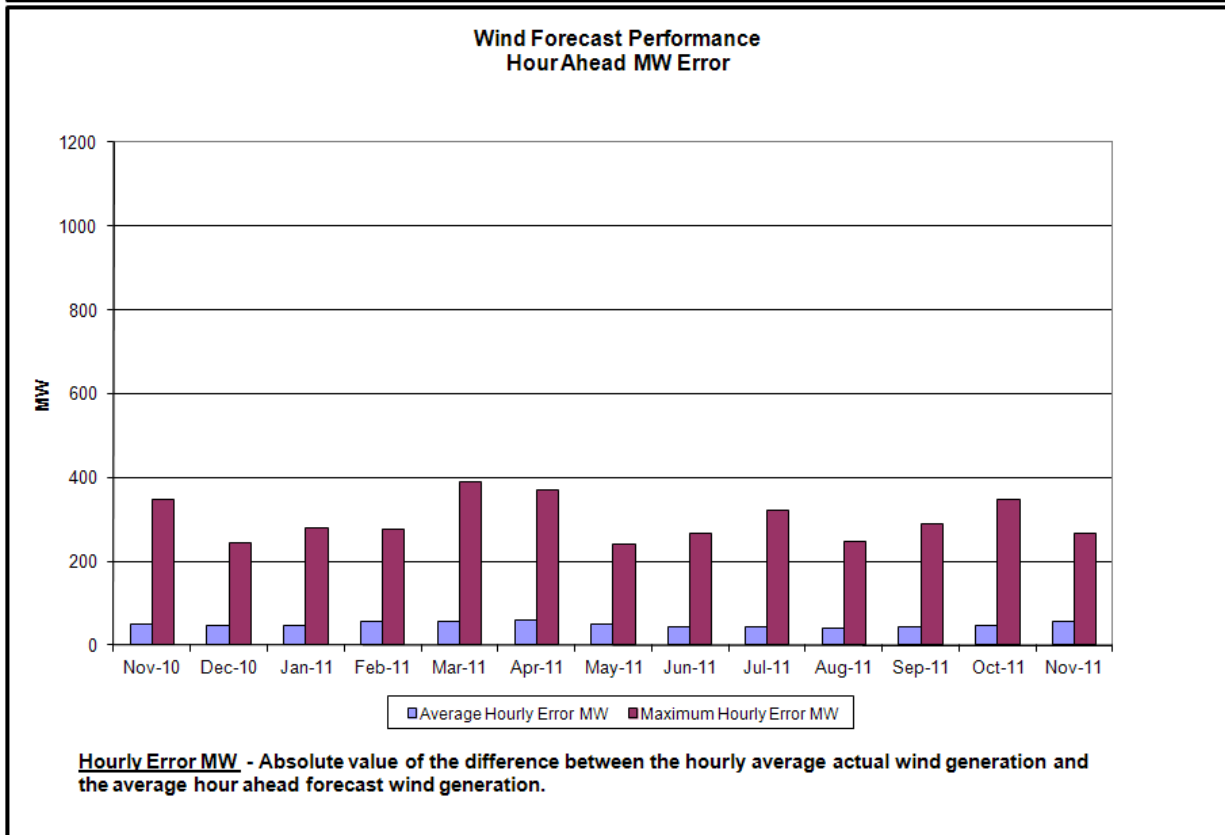
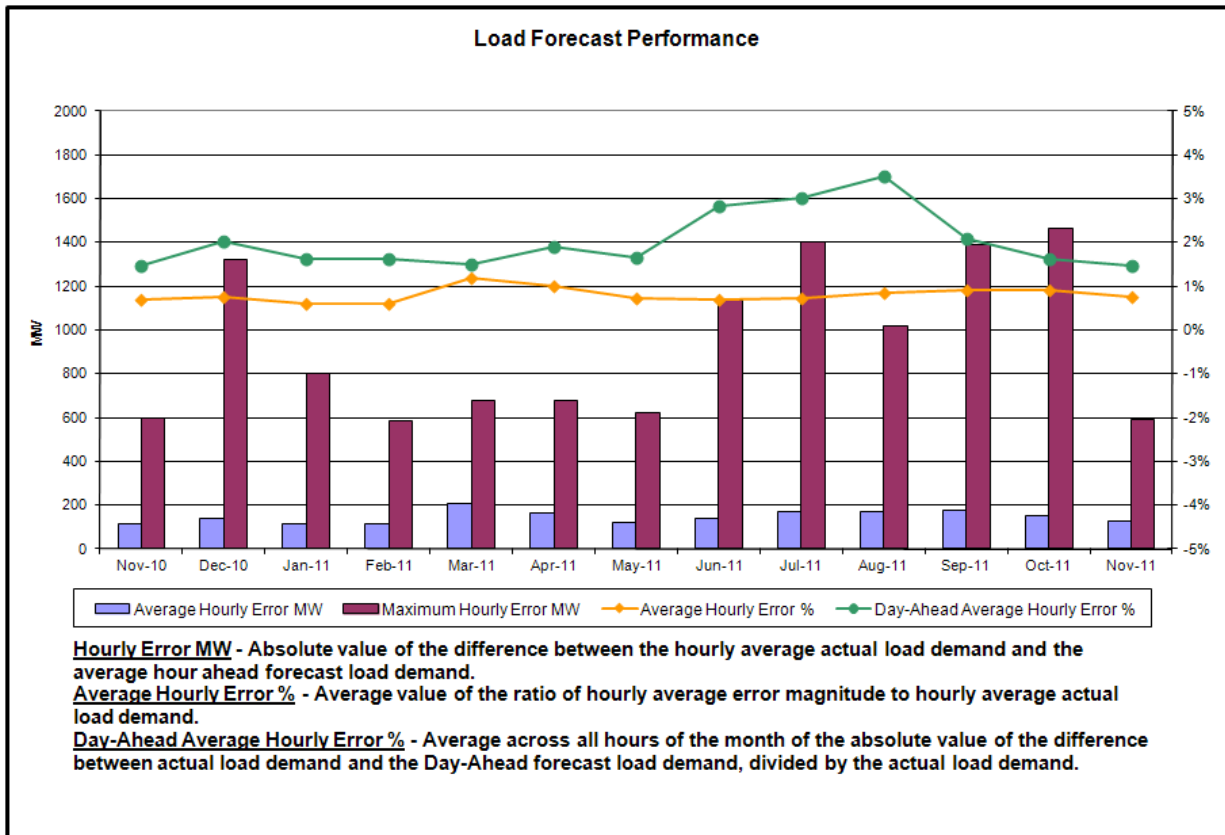
- Peak load of 21,541 MW occurred on 11/22/2011 HB 17
- All-time winter capability period peak load of 25,541 MW occurred on 12/20/2004 HB 17
- 0 hours of Thunder Storm Alerts were declared.
- **Lake Erie Loop Flows Reduce to Average Zero**
  - 2 hours of NERC TLR level 3 curtailments
- Simultaneous, Beck – Niagara and Beck – Packard outages are scheduled for Fall 2011, beginning December 5 and ending December 16
- Effective 12/1/2011 HQ intra-hour ramp will increase from 50MW to 100 MW for each 15 minute interval (see revised TB#158 for details). Also, HQTE will increase the intra-hour scheduling capability from +/-100MW to +/-125MW.

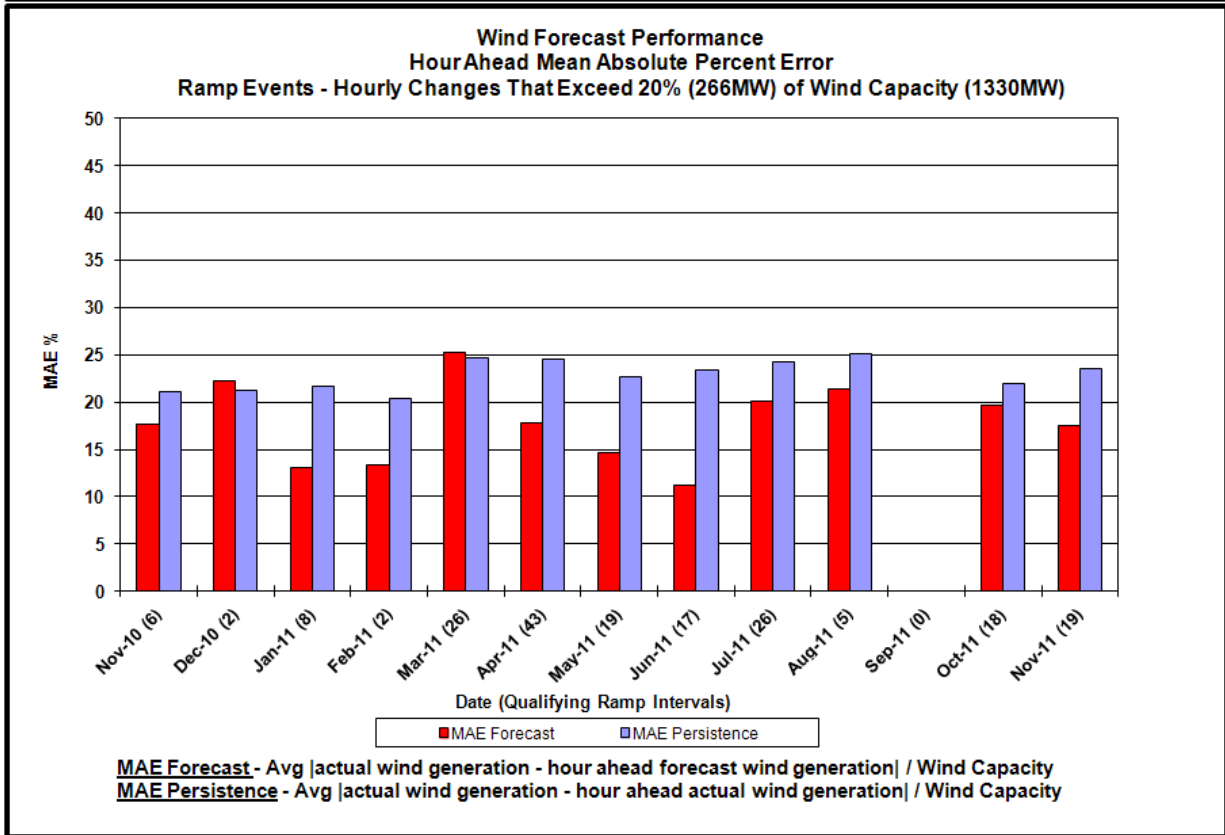
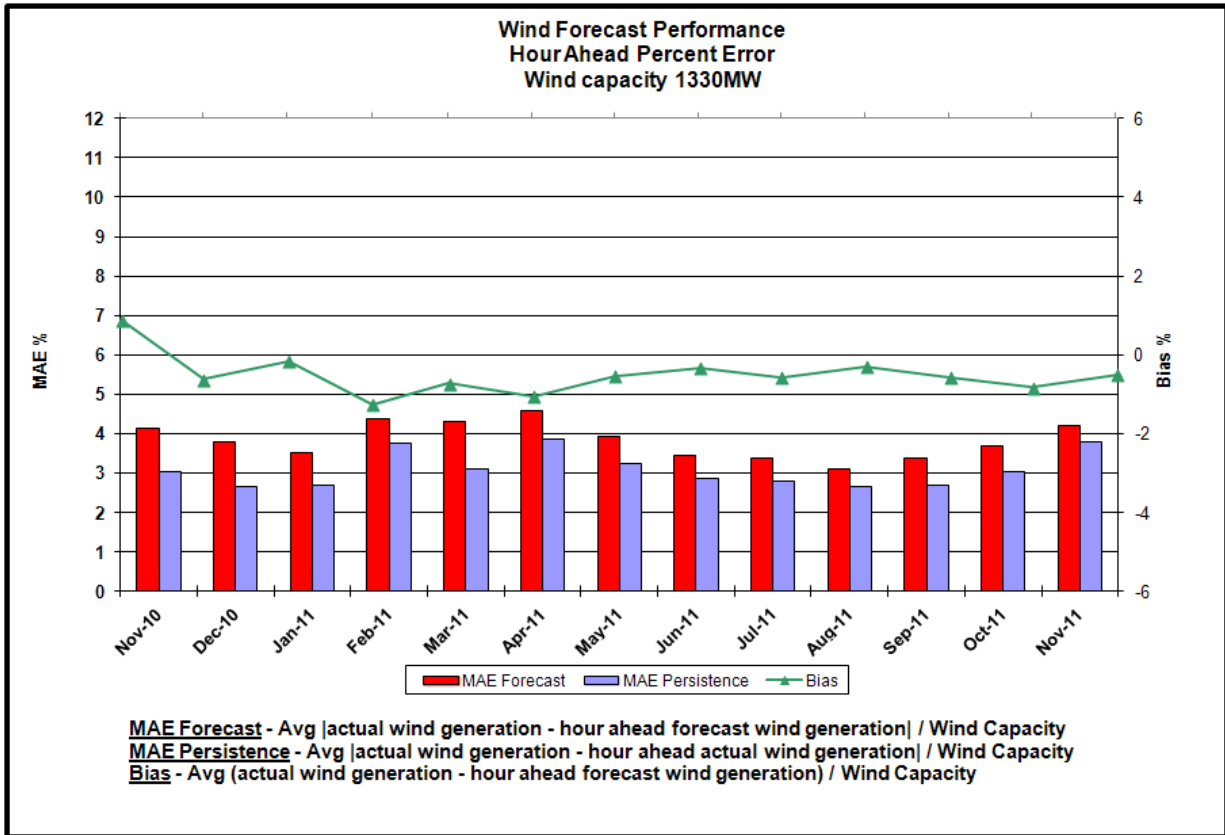
## Reliability Performance Metrics



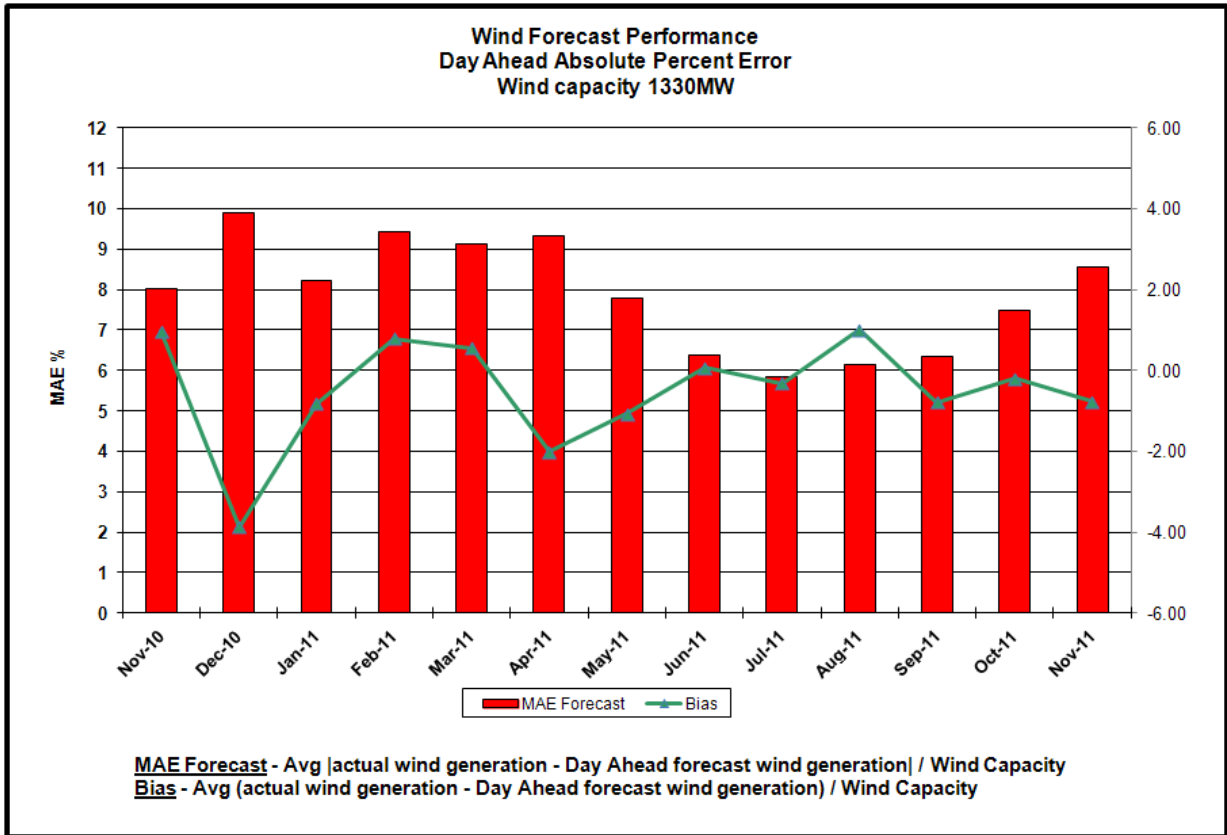


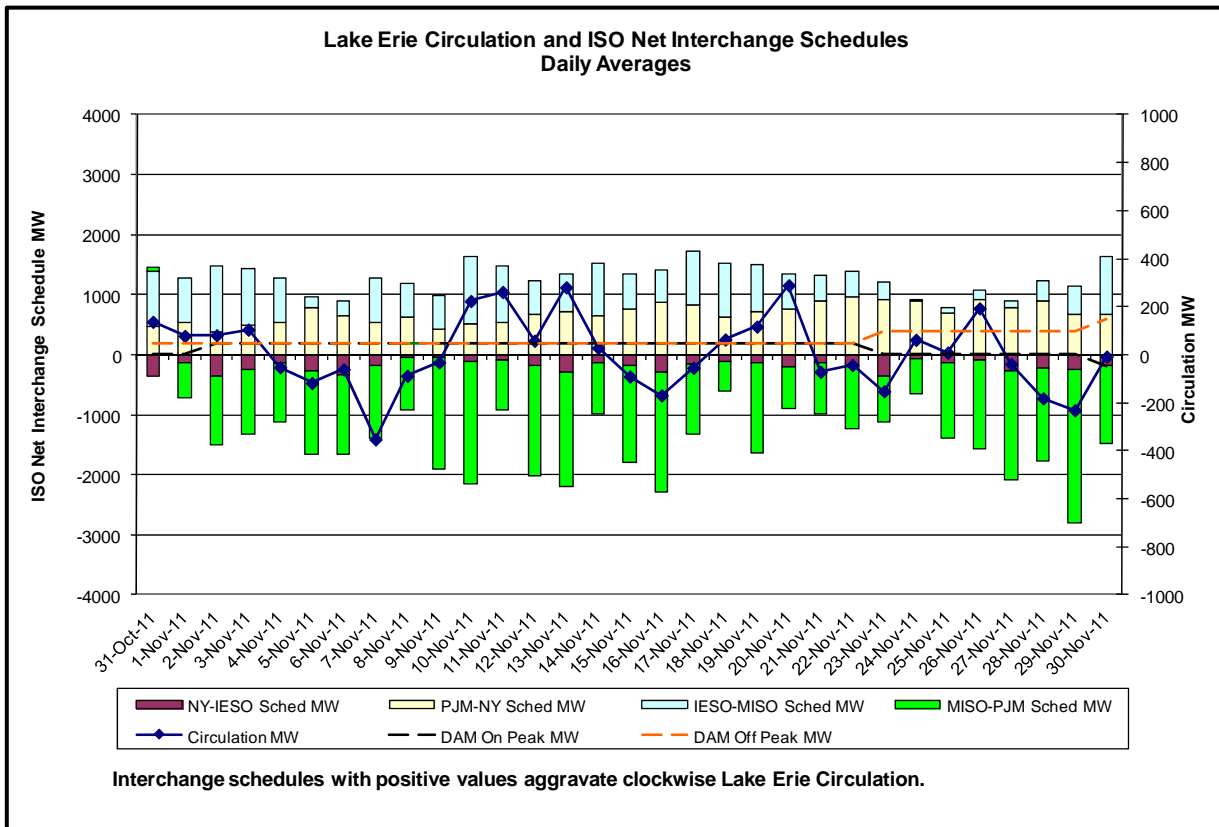
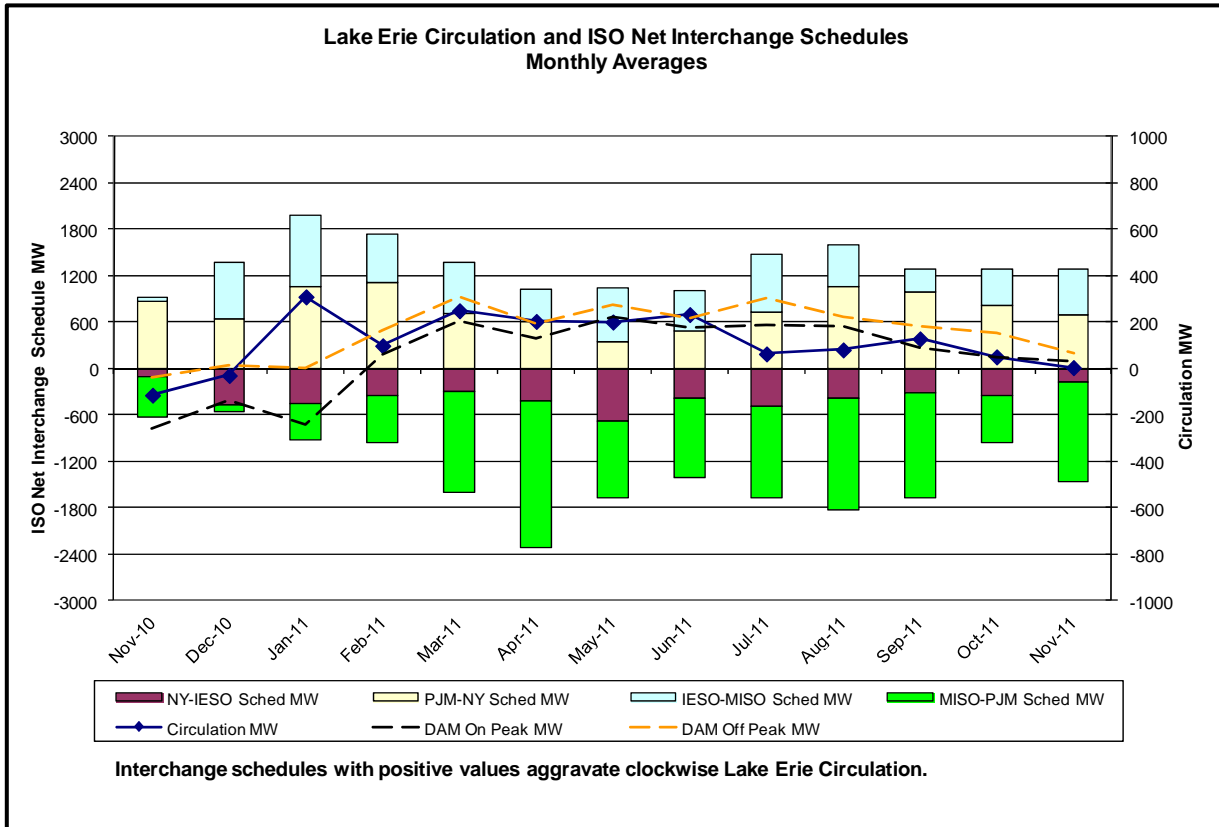




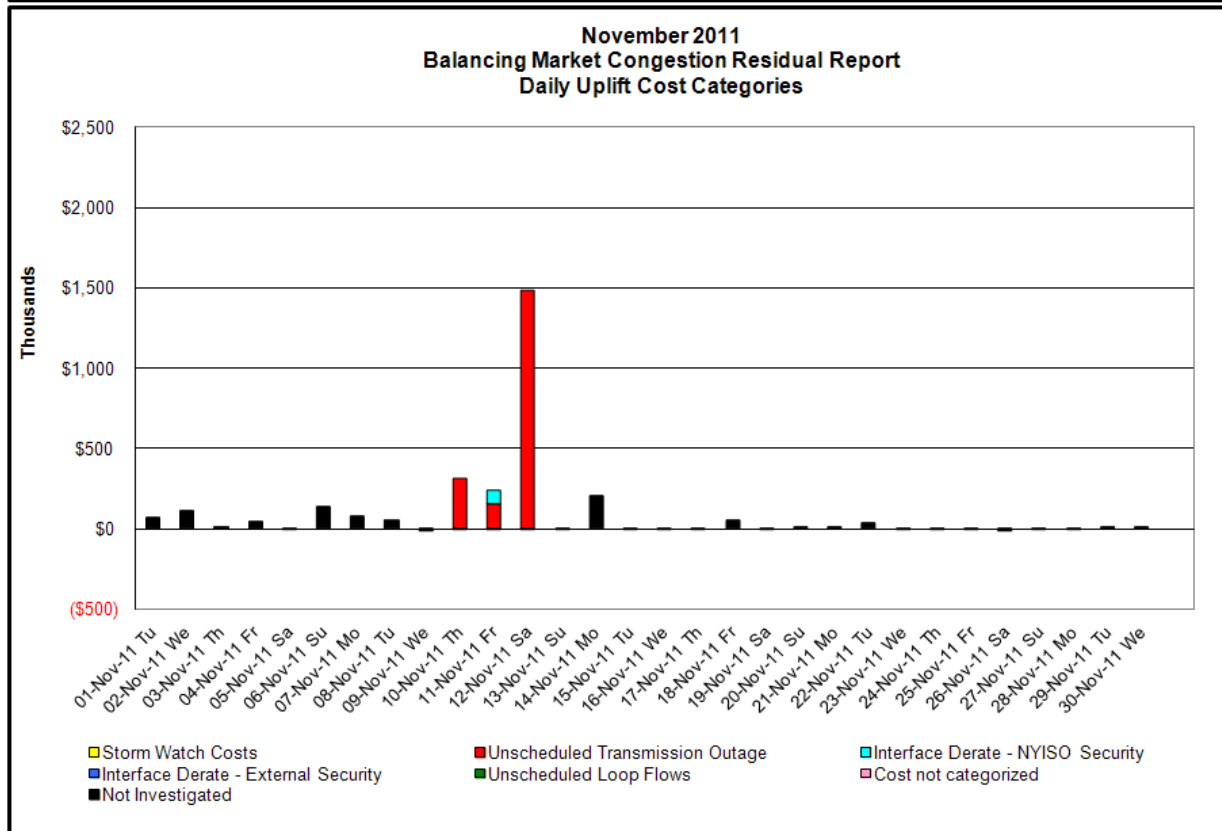
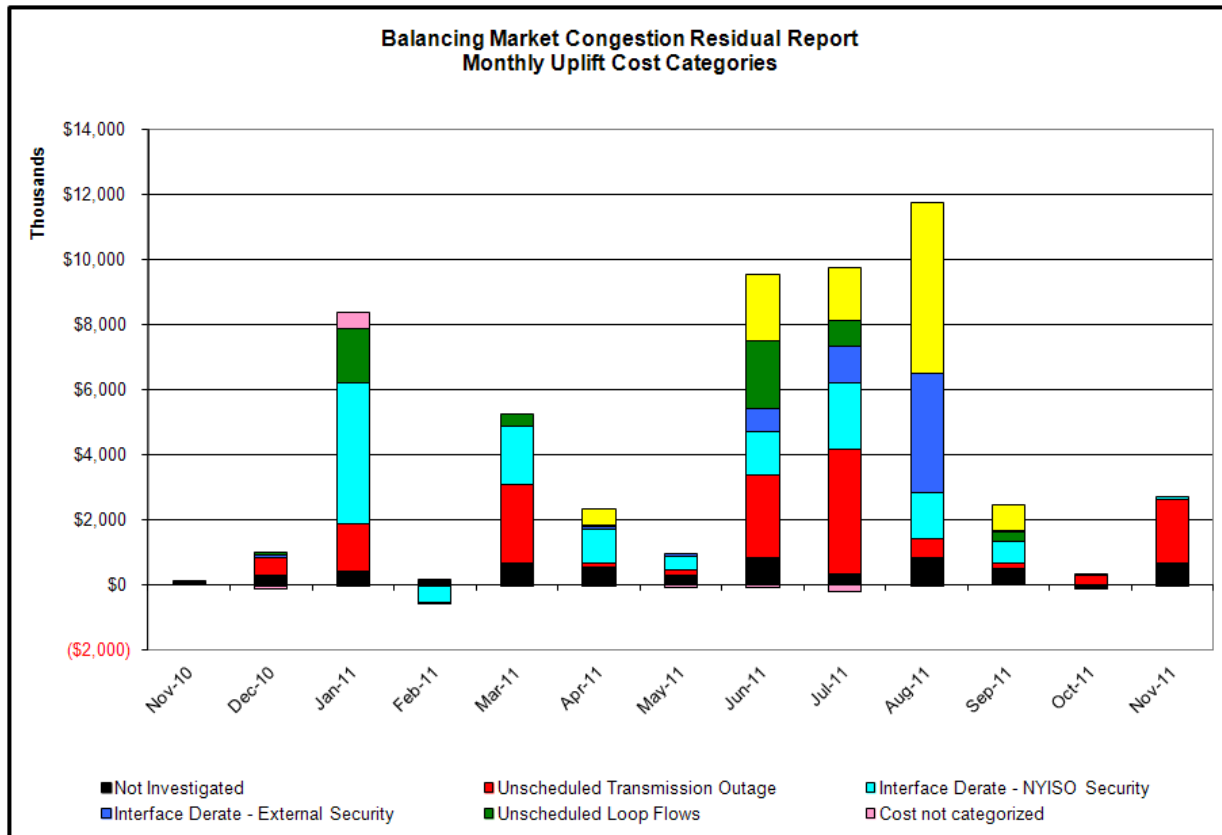








## Market Performance Metrics



Day's investigated in November: 10, 11, 12

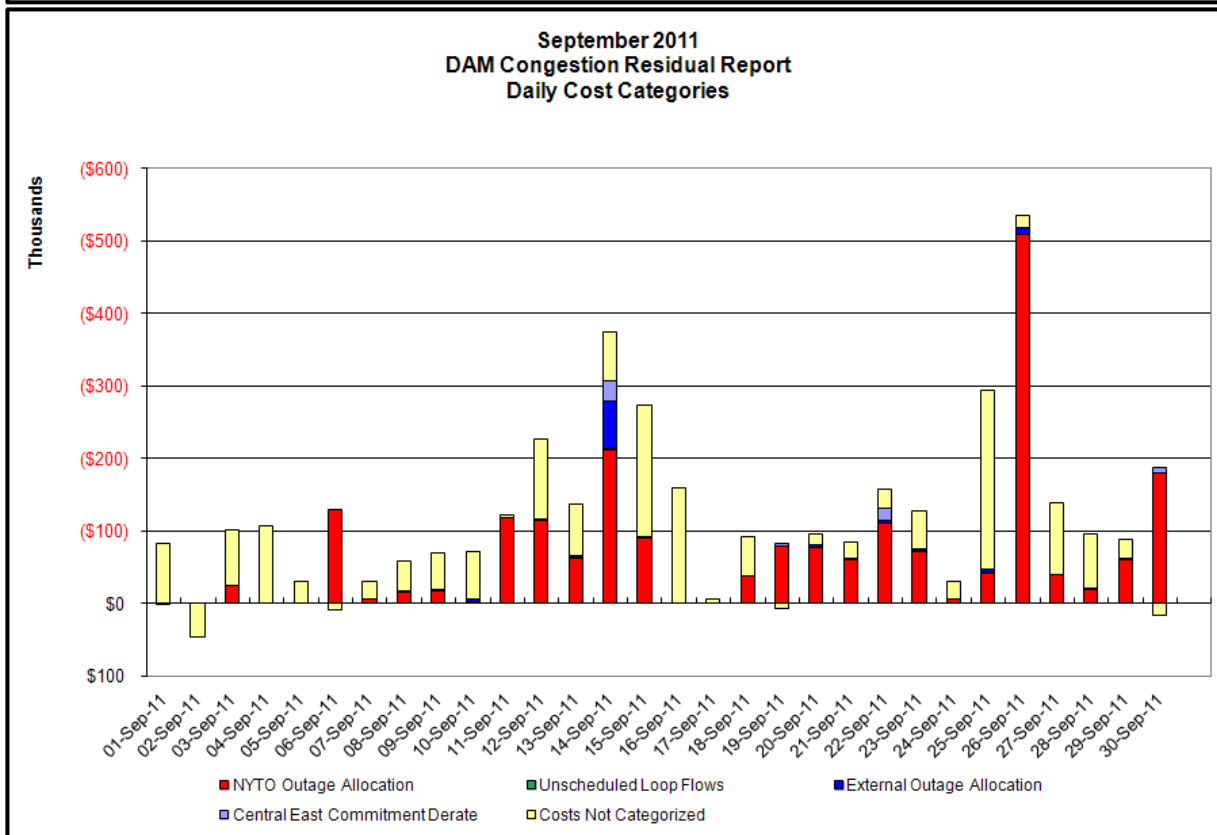
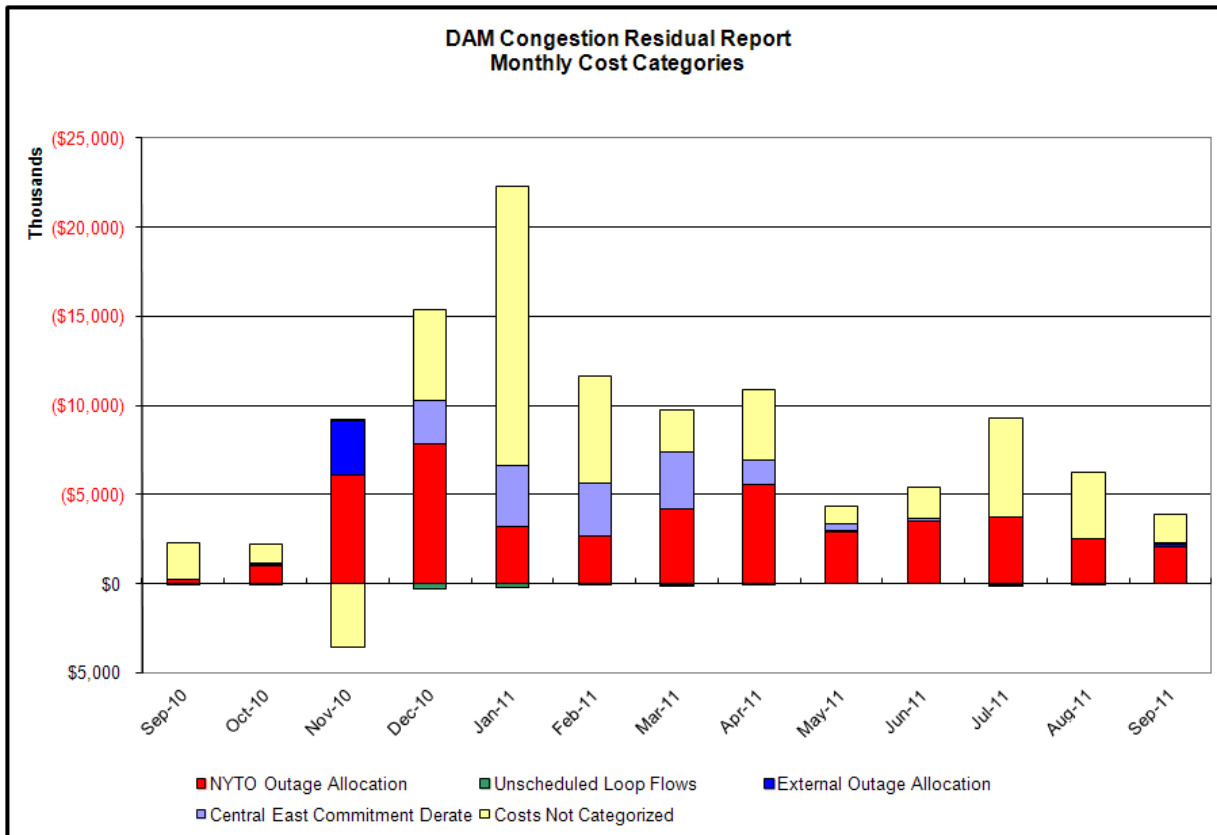
Event	Date (yyyymmdd)	Hours	Description
Red	11/10/2011	16-23	Forced outage GowanusS-Greenwood 138kV (#42232)
	11/10/2011	17	Extended outage New Scotland-Edic Porter 345kV (#14)
	11/10/2011	21-23	Forced outage Jamaica-Corona 138kV (#18002)
Cyan	11/11/2011	0-16	Forced outage GowanusS-Greenwood 138kV (#42232)
	11/11/2011	8-10	Derate Dunwoodie-Shore Road 345kV (#Y50)
	11/11/2011	14-16	Derate Dunwoodie-Shore Road 345kV (#Y50) for I/o Neptune HVDC Tie Line
Red	11/11/2011	8,12-16	Derate East 179th Street-Hell Gate East 138kV (#15054)
	11/12/2011	0-21,23	Extended outage Sprainbrook-East Garden City 345kV (#Y49)

**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.	

