Operations Performance Metrics Monthly Report









February 2011 Report

Operations & Reliability Department New York Independent System Operator

Prepared by NYISO Operations Analysis and Services, based on settlements initial invoice data obtained on or before March 9.



Table of Contents

- Highlights
 - Operations Performance

• Reliability Performance Metrics

- Alert State Declarations
- Major Emergency State Declarations
- IROL Exceedance Times
- Balancing Area Control Performance
- Reserve Activations
- Disturbance Recovery Times
- Load Forecasting Performance
- Wind Forecasting Performance
- Lake Erie Circulation and ISO Schedules

Market Performance Metrics

- RTM Congestion Residuals Monthly Trend
- RTM Congestion Residuals Daily Costs
- RTM Congestion Residuals Event Summary
- RTM Congestion Residuals Cost Categories
- DAM Congestion Residuals Monthly Trend
- DAM Congestion Residuals Daily Costs
- DAM Congestion Residuals Cost Categories
- NYCA Unit Uplift Components Monthly Trend
- NYCA Unit Uplift Components Daily Costs
- ICAP Spot Market Clearing Price
- UCAP Awards

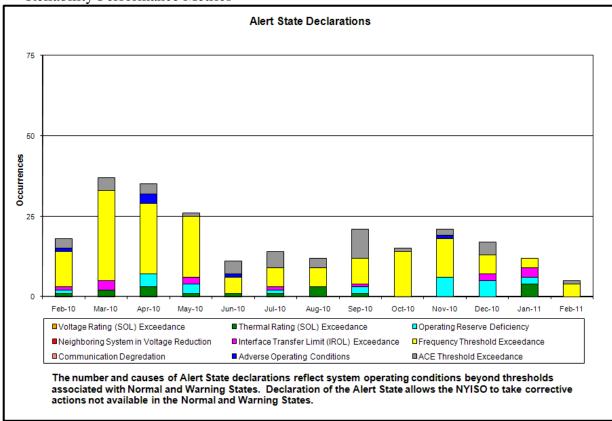


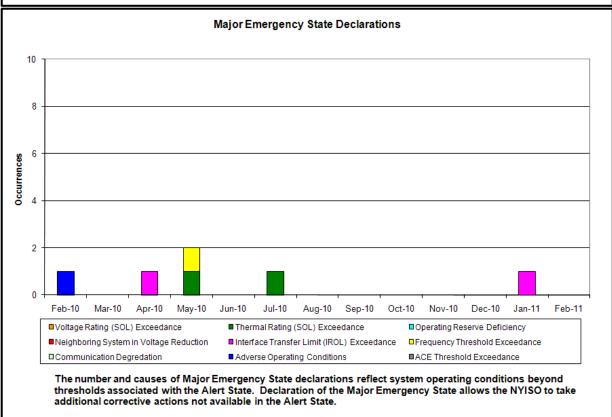
February 2011 Operations Performance Highlights

- Monthly Peak load of 23,443 MW occurred on February 1 HB 18
- All-time winter capability period peak load of 25,541 MW occurred on 12/20/2004 HB17
- Decreased Clockwise Lake Erie Loop Flows
 - Decreased IESO to MISO exports
 - Increased PJM to MISO exports
 - 128 hours of NERC TLR level 3 curtailments
- Scheduled Outage of Rochester-Pannell Road 345kV circuit
 - Minimal uplift/congestion impacts
 - ISO/RG&E actions to mitigate congestion

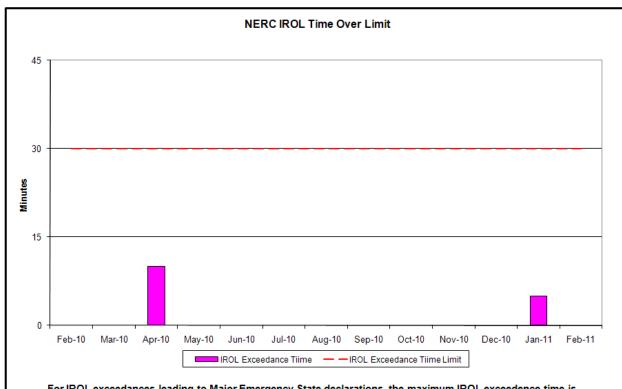


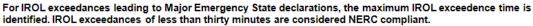
• Reliability Performance Metrics

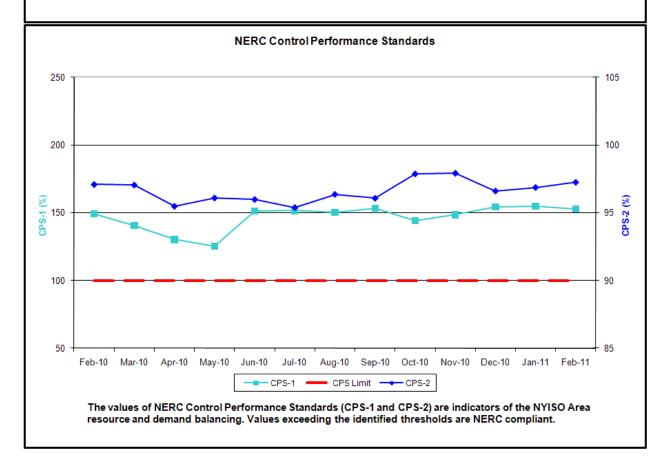




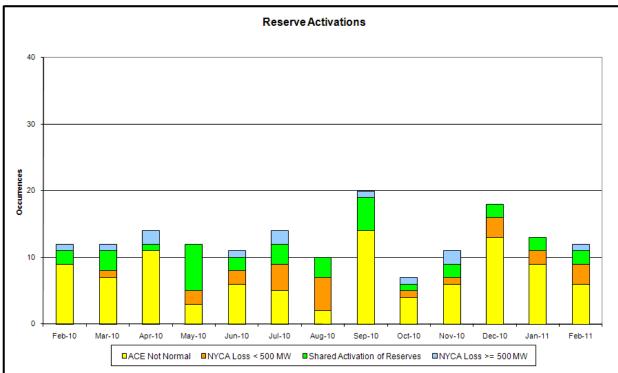




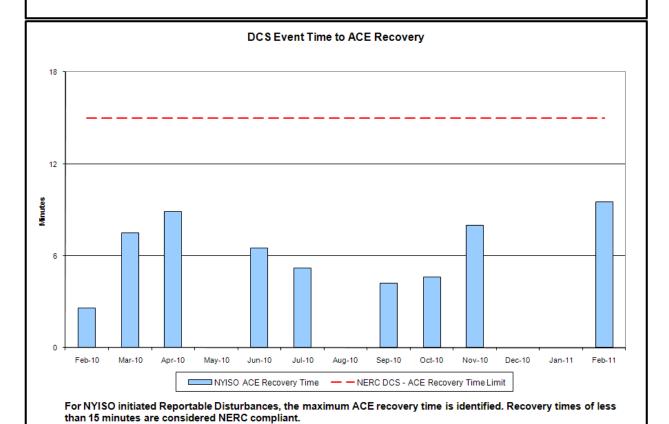




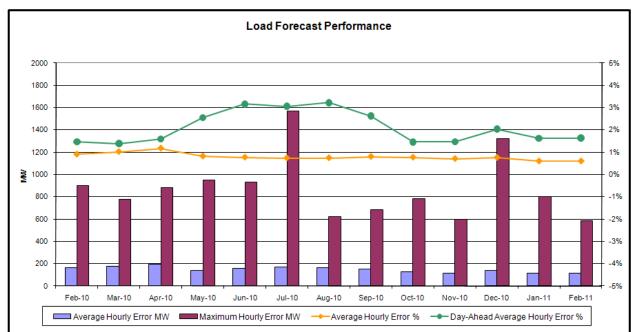




NYISO Reserve Activations are indicators of the need to respond to unexpected operational conditions within the NYISO Area or to assist a neighboring Area (Shared Activation of Reserves) by activating an immediate resource and demand balancing operation.



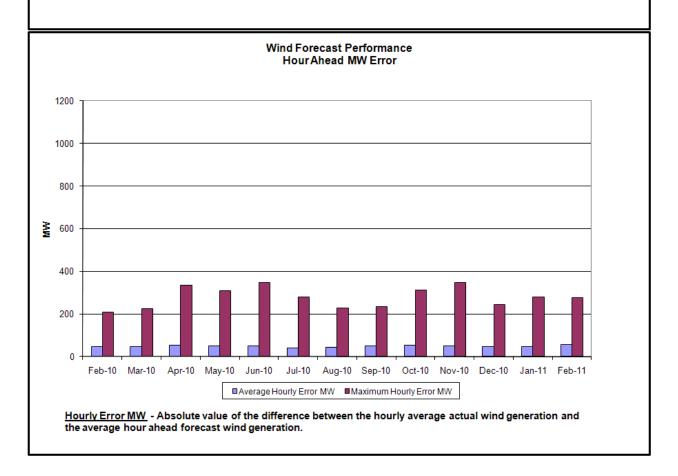




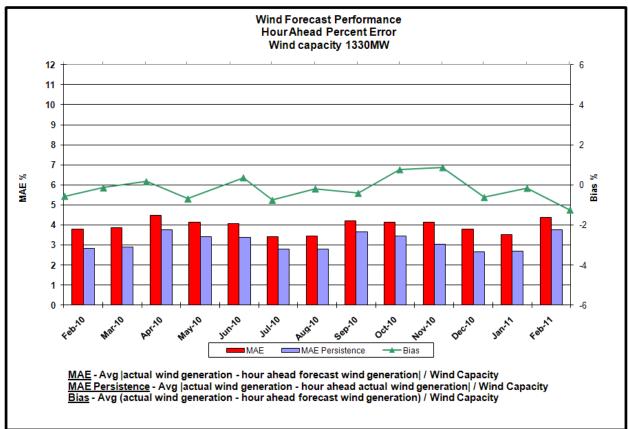
<u>Hourly Error MW</u> - Absolute value of the difference between the hourly average actual load demand and the average hour ahead forecast load demand.

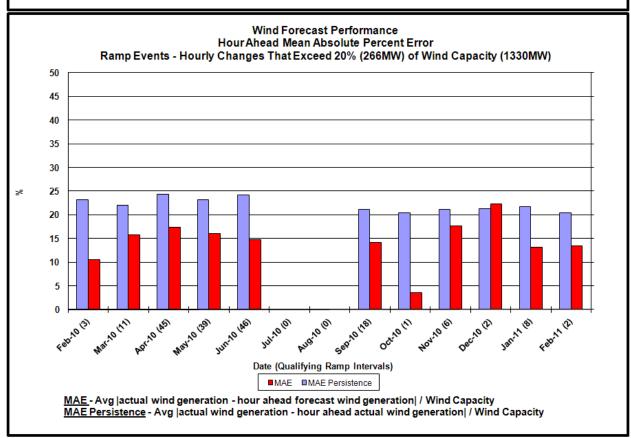
<u>Average Hourly Error %</u> - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

<u>Day-Ahead Average Hourly Error %</u> - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.

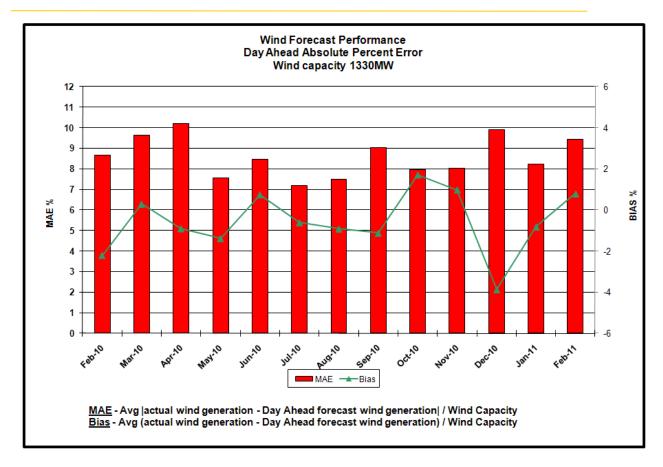




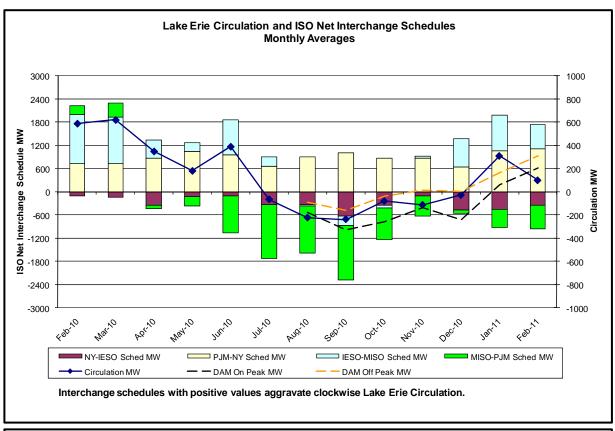


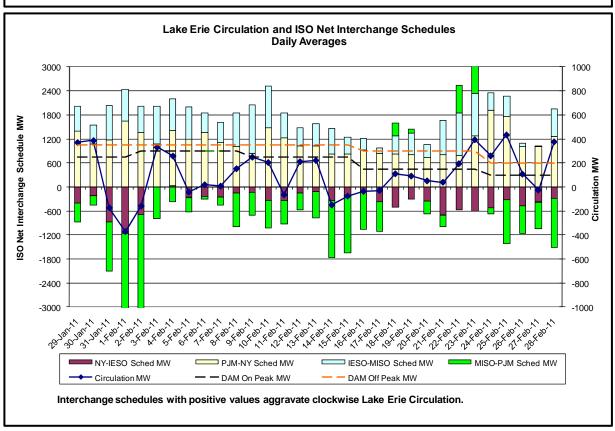






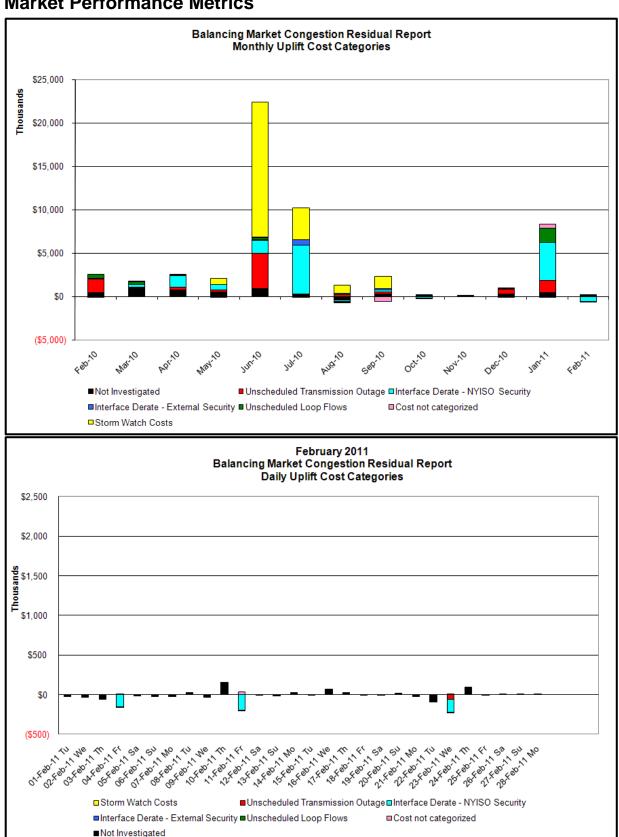








Market Performance Metrics



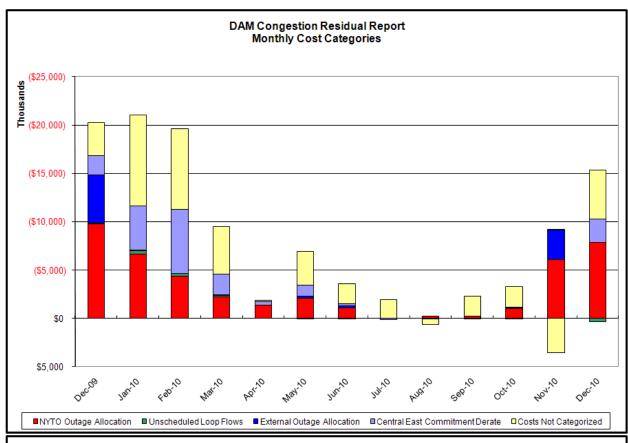


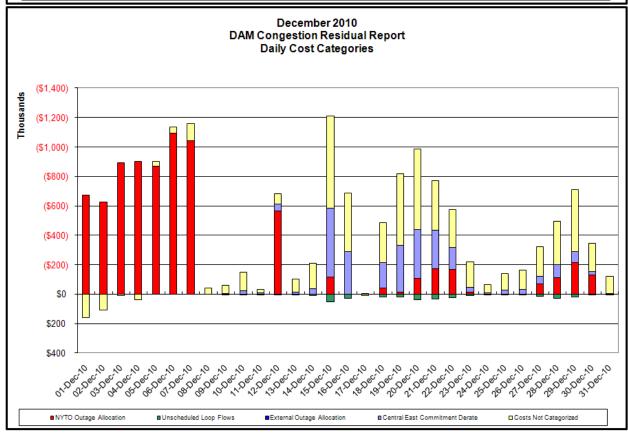
Day's investigated in February: 4,11,23

Event	Date (yyyymmdd)	Hours	Description
	,		Uprate Mott Haven-Dunwoodie 345kV (#71) for I/o Mott
	2/4/2011	11-12,17	Haven-Dunwoodie 345kV (#72)
	2/4/2011	6-11,17,22	Uprate Central East
	2/4/2011	13,14,16	Derate Central East
	2/4/2011	8	PJM DNI Ramp Limit
	2/11/2011	7	NYCA DNI Ramp Limit
	2/11/2011	7-9	Uprate Central East
	2/11/2011	0	PJM DNI Ramp Limit
	2/11/2011	0	HQ-NYISO Scheduling Limit
	2/23/2011	9,10,12	Extended outage Athens-Pleasant Valley 345kV (#91)
	2/23/2011	1-2,9-10	Early return to service New Scotland-Edic Porter 345kV (#14)
	2/23/2011	1,2	NYCA DNI Ramp Limit
	2/23/2011	16-18,20,21	Uprate Central East
	2/23/2011	22	Derate Fox Hills-Willow Brook 138kV (#29212)
	2/23/2011	9	Uprate GoethalsS-GowanusS (#26) 345kV
	2/23/2011	10	OH-NY Scheduling Limit
			Lake Erie Clockwise Circulation, DAM-RTM exceeds
	2/23/2011	14	125MW; Central East

<u>Category</u> Storm Watch	<u>Cost Assignment</u> Zone J	<u>Events Types</u> Thunderstorm Alert (TSA)	Event Examples TSA Activations
Unscheduled Transmission Outage	Market-wide	Reduction in DAM to RTM transfers related to unscheduled transmission outage	Forced Line Outage, Unit AVR Outages
nterface Derate - NYISO Security	Market-wide	Reduction in DAM to RTM transfers not related to transmission outage	Interface Derates due to RTM voltages
nterface Derate - External Security	Market-wide	Reduction in DAM to RTM transfers related to External Control Area Security Events	TLR Events, External Transaction Curtailments
Jnscheduled 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









Day-Ahead Market Congestion Residual Categories							
Category NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change.	Event Examples DAM scheduled outage for equipment modeled inservice 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.					



