Operations Performance Metrics Monthly Report









April 2012 Report

Operations & Reliability Department New York Independent System Operator



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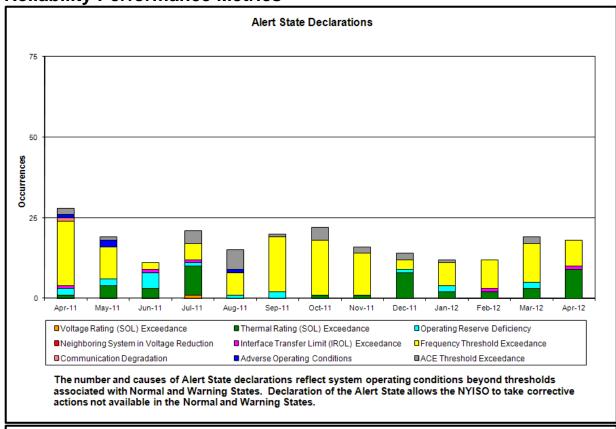


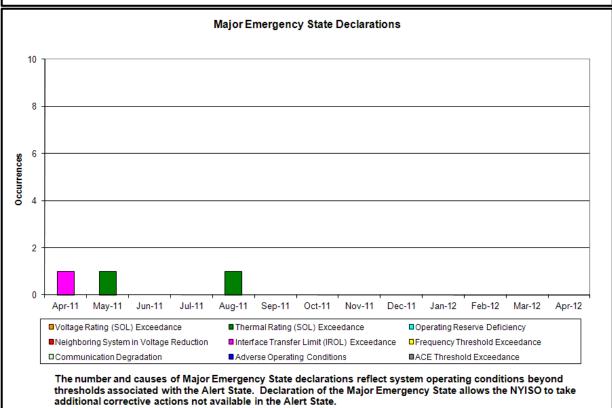
April 2012 Operations Performance Highlights

- Peak load of 21,128 MW occurred on 4/16/2012 HB 15
- 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.
- Clockwise Lake Erie Loop Flows
 - 12 hours of NERC TLR level 3 curtailments
 - On April 5, 2012 at 10:00hrs, IESO and MISO placed in service three of the four Ontario-Michigan phase angle regulators (PARs). The fourth Ontario-Michigan interconnection PAR is currently bypassed. With only three of the four PARs in service, the ability to control circulation is limited compared to the capability with four PARs in service.

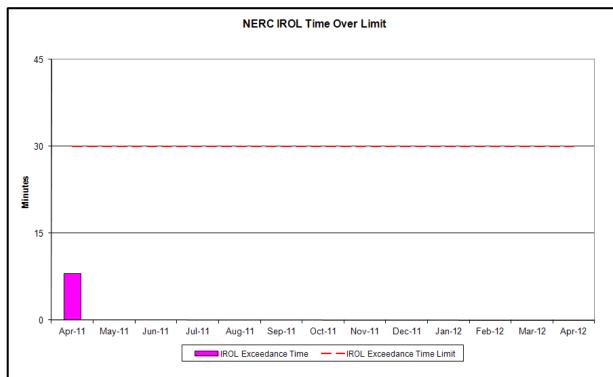


Reliability Performance Metrics

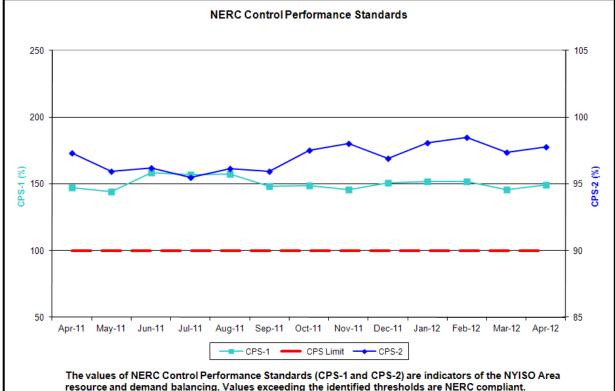






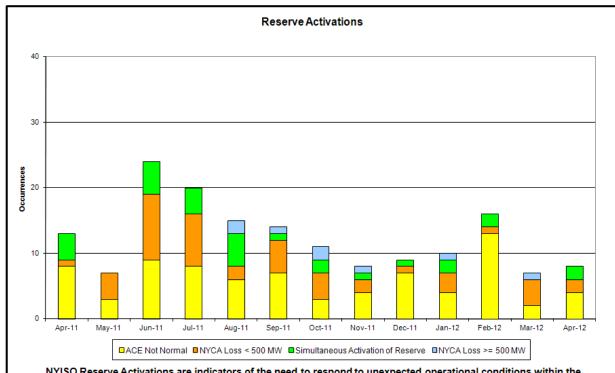


For IROL exceedances leading to Major Emergency State declarations, the maximum IROL exceedence time is identified. IROL exceedances of less than thirty minutes are considered NERC compliant.

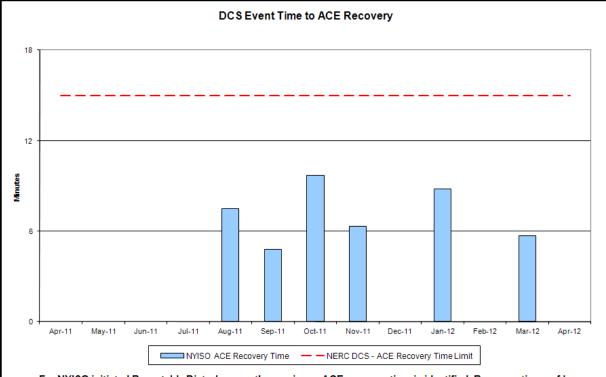


resource and demand balancing. Values exceeding the identified thresholds are NERC compliant.

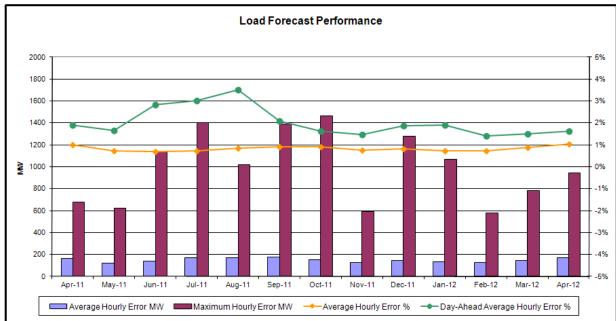




NYISO Reserve Activations are indicators of the need to respond to unexpected operational conditions within the NYISO Area or to assist a neighboring Area (Shared Activation of Reserves) by activating an immediate resource and demand balancing operation.



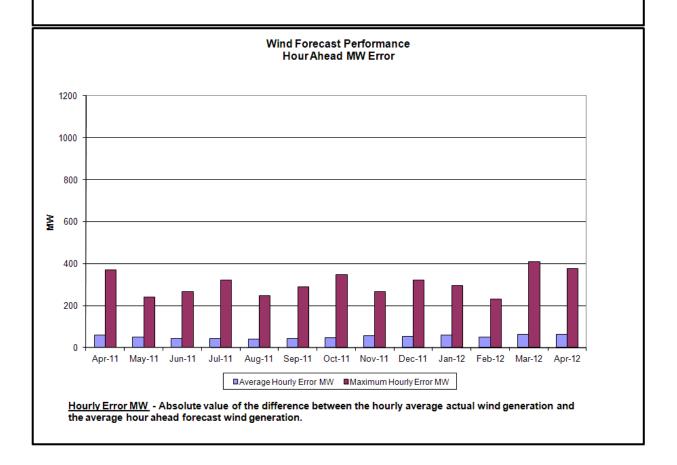




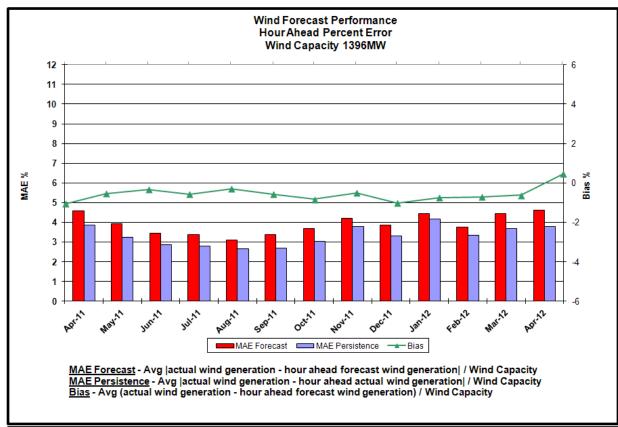
<u>Hourly Error MW</u> - Absolute value of the difference between the hourly average actual load demand and the average hour ahead forecast load demand.

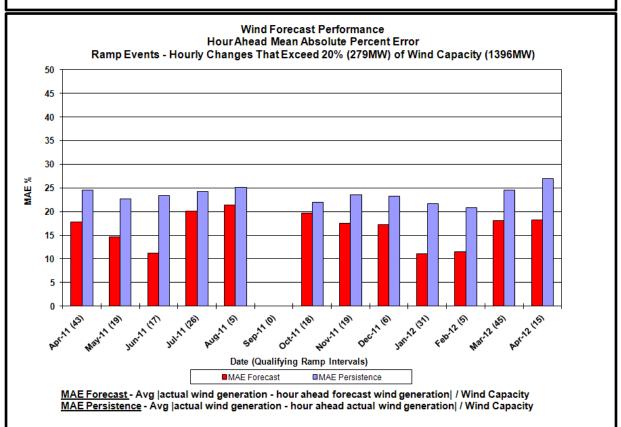
<u>Average Hourly Error %</u> - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

<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.

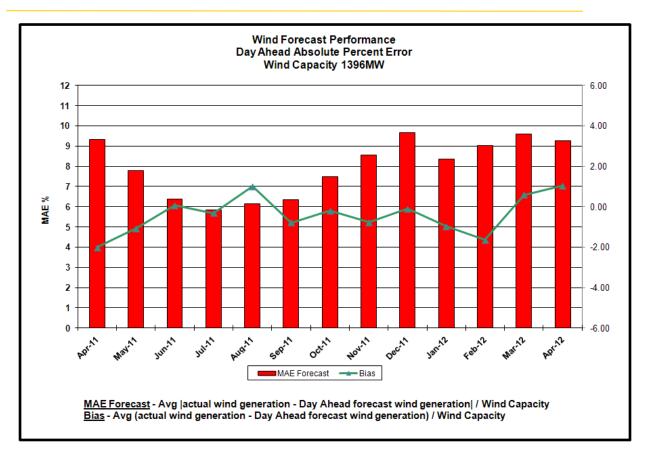




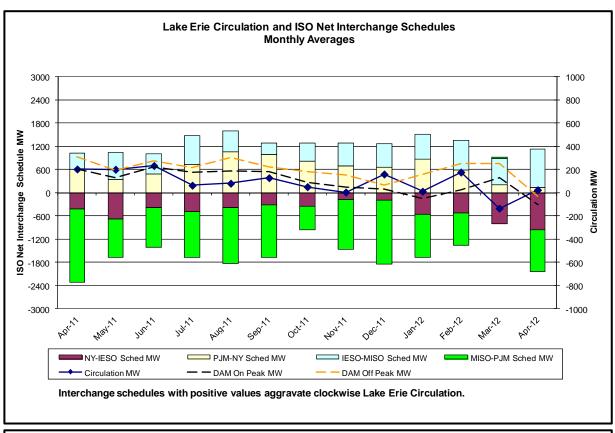


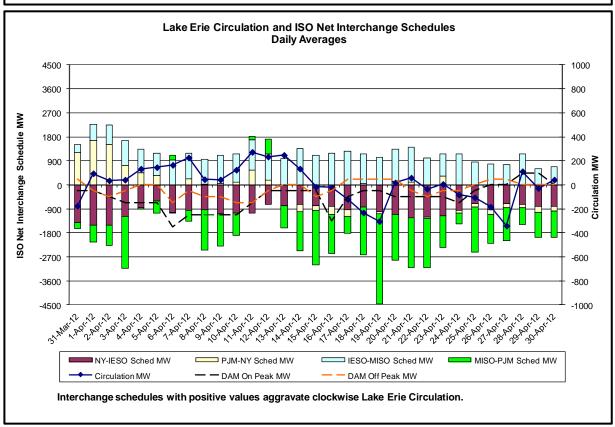






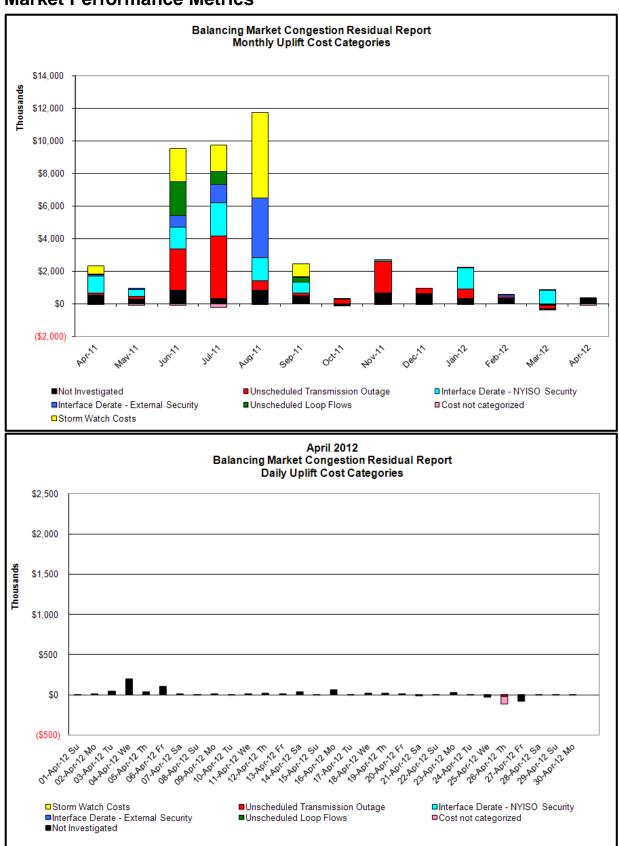








Market Performance Metrics





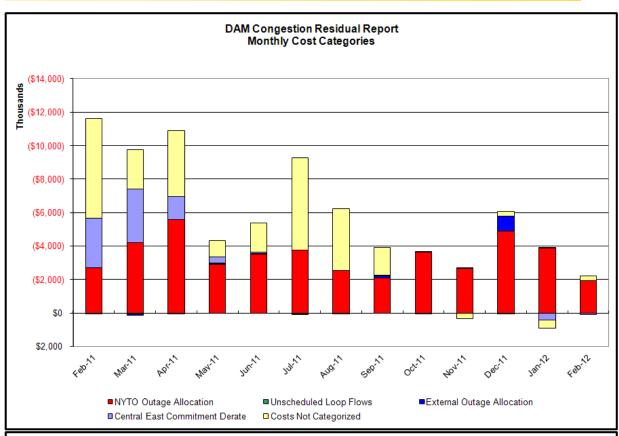
Day's investigated in April: 26

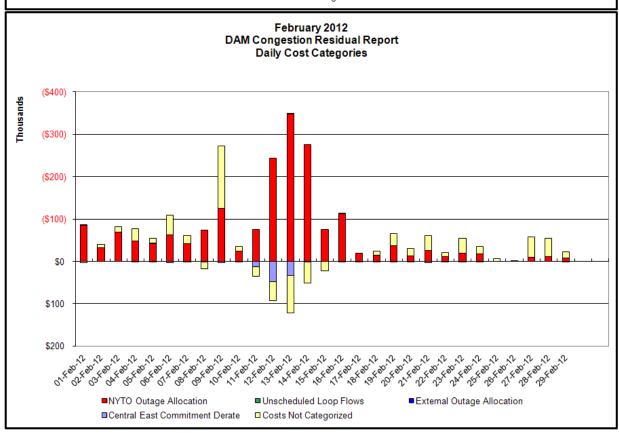
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Event	Date (yyyymm	Hours	Description						
	4/26/2012	20	Early return-to-service Jamaica-Corona 138kV (#18001)						

Real-Time Balancing Market Congestion Residual (Uplift Cost) Categories							
<u>Category</u>	Cost Assianment	Events Types	Event Examples				
Storm Watch	Zone J	Thunderstorm Alert (TSA)	TSA Activations				
Ctoriii Wateri	Zone o	Thanacistoriii Alert (1679	TOA Adiivations				
Unscheduled Transmission Outage	Market-wide	Reduction in DAM to RTM transfers	Forced Line Outage,				
-		related to unscheduled transmission	Unit AVR Outages				
		outage					
_							
Interface Derate - NYISO Security	Market-wide	Reduction in DAM to RTM transfers	Interface Derates due to				
		not related to transmission outage	RTM voltages				
		B B B	T. D. E.				
Interface Derate - External Security	Market-wide	Reduction in DAM to RTM transfers	TLR Events, External Transaction				
		related to External Control Area Security Events	External Transaction Curtailments				
		Security Events	Curtaninents				
Unscheduled Loop Flows	Market-wide	Changes in DAM to RTM	DAM to RTM Clockwise				
onsolication Edg Filens	market wide	unscheduled loop flows impacting	Lake Erie Loop Flows				
		NYISO Interface transmission	greater than 125 MW				
		constraints					
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							
Category NYTO Outage	Allocation	<u>Cost Assignment</u> Responsible TO	Events Types 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 I	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 Outa	ge 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 C	ommitment 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.					



