

Major Emergency Report June 24, 2025, Operating Reserve Deficiency

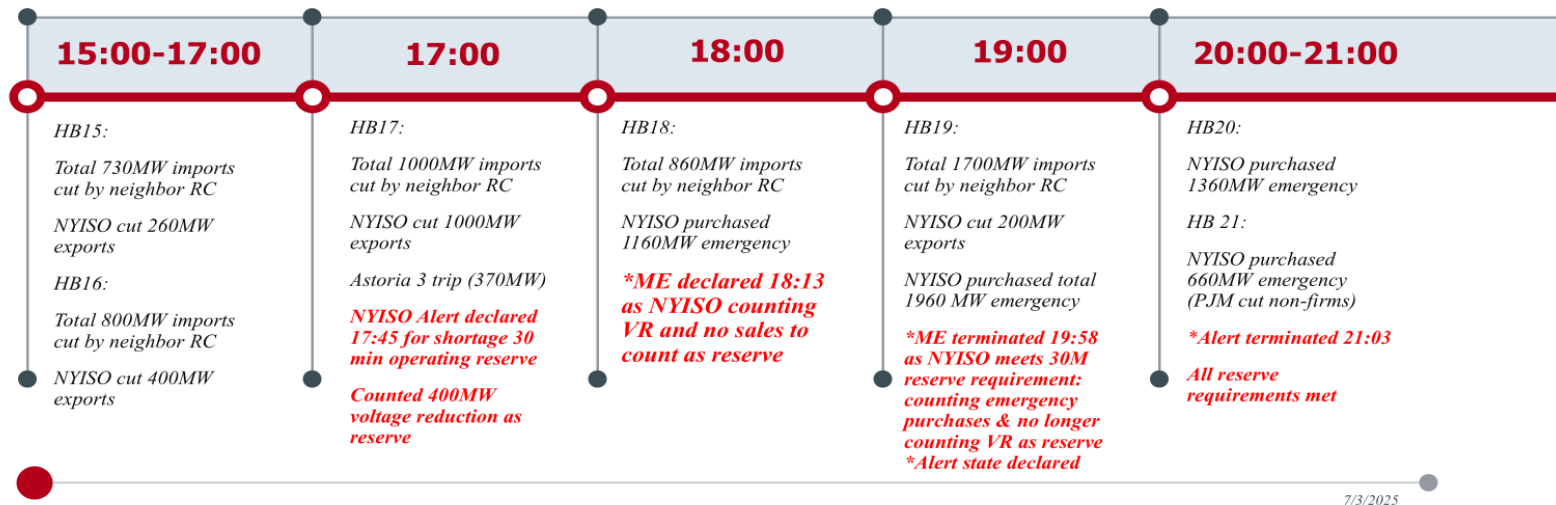
Chris Hamilton

Manager, Control Room Operations

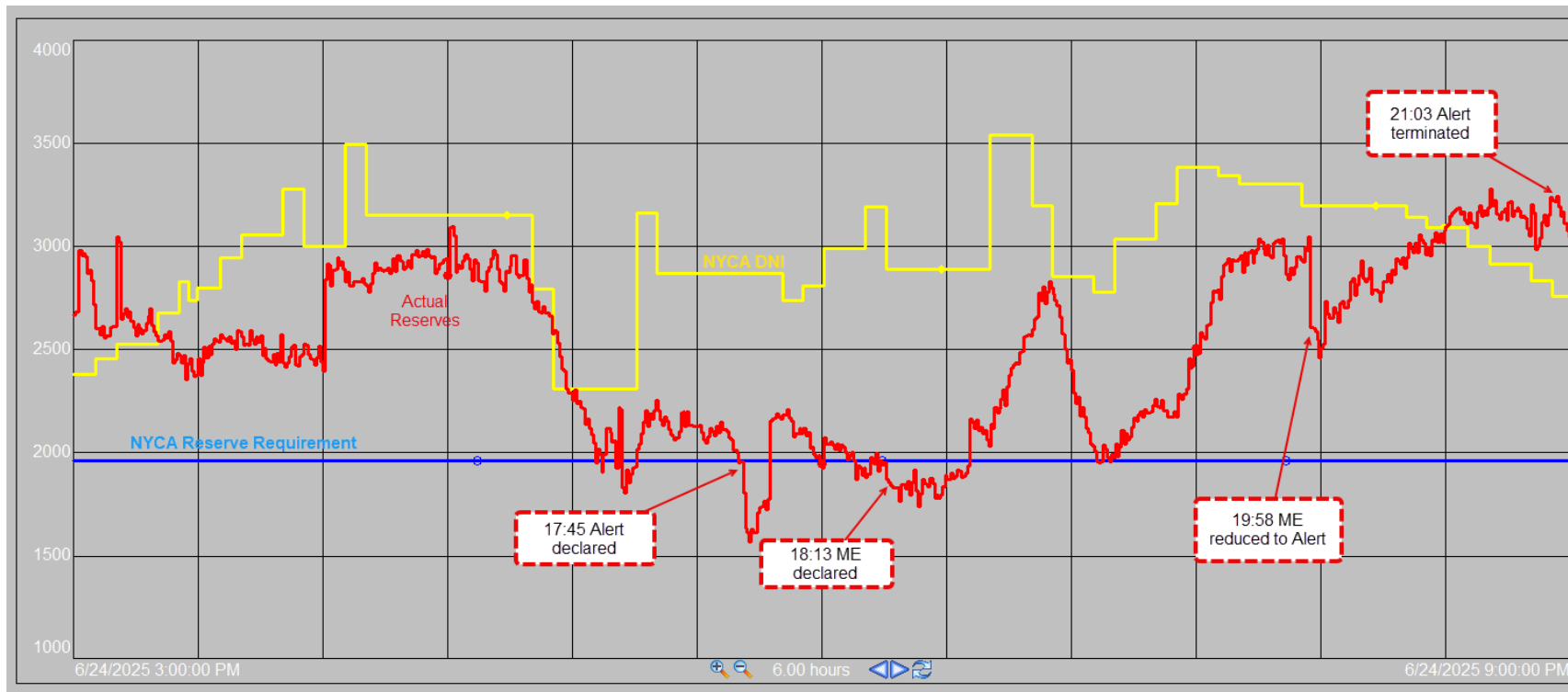
System Operations Advisory Subcommittee

System State Timeline

Events & System States



Timeline of System Events



Event Description

- **At 18:13 on 06/24/2025**

- A Major Emergency was declared by the NYISO Shift Manager due to Operating Reserve deficiency (less than one and one-half times the most severe contingency)

- **Cause**

- High demand, stressed conditions existed regionwide because of intense summer weather (near 90/10 conditions) and resource performance issues
- Neighboring Balancing Areas curtailed approximately 2000 MW of interchange scheduled to flow into NY to preserve their own reserves
- Some NY resources experienced performance issues
 - Approximately 1000 MW of derates through peak hours

Event Description (continued)

- **Corrective Actions**

- All generation was dispatched to optimize 30-minute reserves
- Curtailed non-firm sales on available interfaces
- Emergency Energy purchases arranged on all available interfaces, up to 1960 MW
- Voltage Reduction relief was counted as reserve

- **Load Relief was not required**

- **Major Emergency was terminated at 19:58 on June 24, 2025**

- **Follow Up Actions Taken**

- Voltage Reduction Credit was removed from system reserve calculation
- NYISO transitioned to the Alert State at 19:58 and to the Normal State at 21:03
- All Emergency Energy Purchases were ended at 22:00

Event Chronology

- **6/23/25 prior to 14:00**
 - EDRP/SCR day ahead advisory notice sent out for all zones HB14–HB20.
 - Called External Capacity on all proxies HB 14-20
- **06/23/2025 at 18:55**
 - Oswego 5 tripped, loaded at 560 MW (820 MW UOL)
- **20:00**
 - Oswego 6 requested via SRE for 06/24/2025 HB14 through HB23
- **06/24/2025 01:42**
 - IESO declares EEA1
- **05:09**
 - Oswego 5 back online
- **09:11**
 - EDRP/SCR advisory 2-hour activation notice sent out for all zones HB14–HB20.

Event Chronology

- **09:37**
 - MISO declares Max Gen Alert
 - PJM declares EEA1 and will be recalling non-firm exports over the peak
- **10:30**
 - NYISO declares EEA1
- **11:46**
 - PJM declares Maximum Generation Emergency/Load Management Alert
- **12:55**
 - Astoria 2 tripped resulting in ~160 MW loss of capacity
- **15:00**
 - PJM curtailed all non-firm exports to NYISO through end of day (AC ties)
 - Oswego 6 synchronized to the grid and did not become dispatchable until 18:00

Event Chronology

- **16:00**
 - ISO New England curtailed exports to NY, resulting in a loss of ~1000 MW of interchange into NY over the course of the next hour
- **16:15**
 - NYISO curtailed ~400 MW of exports to PJM
- **17:43**
 - Astoria 3 tripped resulting in loss of ~370 MW of capacity
- **17:45**
 - ISO NE curtailed 360 MW of exports to NYISO
 - NYISO declared Alert State for deficiency of Operating Reserve
 - NYISO calculating Operating Reserves with 400 MW Voltage Reduction credit at 17:47

Event Chronology

- **18:00**
 - PJM curtailed all non-firm exports to NYISO on the Neptune Cable
 - NYISO purchased 660 MW of emergency energy on Neptune Cable
 - NYISO purchased an additional 500 MW emergency energy from IESO, PJM AC ties, & HQ
- **18:13**
 - Major Emergency declared for deficiency of operating reserve
- **19:00**
 - Schedule change with IESO & PJM resulted in loss of ~1200 MW interchange into NYISO
 - NYISO purchased a total of 1960 MW of emergency energy from IESO, PJM, & HQ
 - NYISO curtailed 329 MW of exports to ISO NE

Event Chronology

- **19:30**
 - NYISO curtailed 200 MW of exports to PJM on AC ties
- **19:58**
 - Removed voltage reduction from NYISO reserve calculation
 - Ended Major Emergency and entered Alert State
- **20:50**
 - ISO NE no longer curtailing exports on AC ties
- **21:00**
 - No longer scheduling emergency purchases on PJM AC ties or IESO
 - Scheduled final hour of emergency purchases on Neptune (ended at 22:00)
- **21:03**
 - Alert State terminated and returned to Normal State. Declared EEA 0 at 21:14

Our Mission and Vision



Mission

Ensure power system reliability and competitive markets for New York in a clean energy future



Vision

Working together with stakeholders to build the cleanest, most reliable electric system in the nation



Questions?