System Operations Report

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Average Load Forecast Error

May 2020
Hourly Error: **2.04%**  Peak Error: **1.96%**
Daily Peak Forecast Error (May)

- **Error at Peak Hour**
- **Weekend / Holiday**

**Over-forecasting**

**Under-forecasting**
PJM's BAAL performance has exceeded the goal of 99% for each month in 2020.
• One spinning event in the month of May
• Five reserve sharing events with the Northeast Power Coordinating Council (NPCC)
• The following Emergency Procedures occurred in April:
  – 6 Post-Contingency Local Load Relief Warnings (PCLLRW)
  – 14 High System Voltages
  – 0 Shortage Cases Approved
The 13-month average forced outage rate is 3.73% or 7,371 MW. The 13-month average total outage rate is 16.27% or 32,061 MW.
Note: “Unplanned Outages” include tripped facilities. One tripping event may involve multiple facilities.
PCLLRW Count Vs. Peak Load – Daily Values For 3 Months

- RTO Peak Load
- PCLLRW Count

MW (Thousands)

PCLLRW Count
*Tier 2 Response is equal to Tier 2 Assigned for events less than ten minutes*
Appendix
Goal Measurement: Balancing Authority ACE Limit (BAAL)

- The purpose of the new BAAL standard is to maintain interconnection frequency within a predefined frequency profile under all conditions (normal and abnormal), to prevent frequency-related instability, unplanned tripping of load or generation, or uncontrolled separation or cascading outages that adversely impact the reliability of the interconnection. NERC requires each balancing authority demonstrate real-time monitoring of ACE and interconnection frequency against associated limits and shall balance its resources and demands in real time so that its Reporting ACE does not exceed the BAAL (BAAL_{LOW} or BAAL_{HIGH}) for a continuous time period greater than 30 minutes for each event.

- PJM directly measures the total number of BAAL excursions in minutes compared to the total number of minutes within a month. PJM has set a target value for this performance goal at 99% on a daily and monthly basis. In addition, current NERC rules limit the recovery period to no more than 30 minutes for a single event.
The 13-month average forced outage rate is 3.73% or 7,371 MW.
The 13-month average total outage rate is 16.27% or 32,061 MW.
PCLLRW Count Vs. Peak Load – Daily Values For 13 Months