

System Operations Subcommittee

PJM Operations Summary

April 2023 Operations

April Events:

11 PCLLRW Events

2 Non-Market PCLLRW Events

1 Geomagnetic Disturbance Warning

4 High System Voltage

CPS1: 129.71% CPS2: 83.66% BAAL: 99.82%

¹PJM directly measures the total number of BAAL excursions in minutes compared to the total number of minutes within a month with a target value for this performance goal at 99% on a daily and monthly basis.

NERC rules limit the recovery period to no more than 30 minutes for a single event.

PCLLRW (11 Events)

| Effective Start Time | Effective End Time | Message | Region |
|-----------------------------|---------------------------|---|---------------|
| 04.24.2023 07:50 | 04.24.2023 14:41 | A Post Contingency Local Load Relief Warning has been issued to maintain DURBIN 138 KV 138-1 at 127.0 KV in the FE(APS) for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available | FE-AP |
| 04.22.2023 15:09 | 04.22.2023 16:17 | A Post Contingency Local Load Relief Warning has been issued to maintain PLEASNTV TX3 XFORMER at 681.0 MVA in the DOM for Transmission Contingency Control. Additional Comments: Post Contingency Switching available | DOM |
| 04.21.2023 14:34 | 04.21.2023 19:53 | A Post Contingency Local Load Relief Warning has been issued to maintain BRAMBLET-EVRGREEN 2172B at 1059.0 MVA in the DOM for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available | DOM |
| 04.21.2023 12:34 | 04.21.2023 18:33 | A Post Contingency Local Load Relief Warning has been issued to maintain IDYLWOO4-CLARK4 202A at 560.0 MVA in the DOM for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available | DOM |
| 04.20.2023 18:15 | 04.20.2023 21:24 | A Post Contingency Local Load Relief Warning has been issued to maintain IDYLWOO4-CLARK4 202A at 533.0 MVA in the DOM for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available | DOM |
| 04.20.2023 16:43 | 04.20.2023 21:24 | A Post Contingency Local Load Relief Warning has been issued to maintain BRAMBLET-EVRGREEN 2172B at 1059.0 MVA in the DOM for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available | DOM |
| 04.13.2023 17:38 | 04.13.2023 20:34 | A Post Contingency Local Load Relief Warning has been issued to maintain BULLRUN TX3 XFORMER at 195.0 MVA in the DOM for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available | DOM |
| 04.13.2023 17:10 | 04.13.2023 17:38 | A Post Contingency Local Load Relief Warning has been issued to maintain BULLRUN TX3 XFORMER at 195.0 MVA in the DOM for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available | DOM |
| 04.12.2023 11:58 | 04.12.2023 15:02 | A Post Contingency Local Load Relief Warning has been issued to maintain ROWAN_CO 138 KV ND_151 at 127.7 KV in the EKPC | EKPC |

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| | | for Transmission Contingency Control. Additional Comments: Post Contingency Switching available | |
| 04.10.2023 21:27 | 04.14.2023 22:33 | A Post Contingency Local Load Relief Warning has been issued to maintain MIER 138 KV BB_17947 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available | AEP |
| 04.05.2023 06:17 | 04.05.2023 12:18 | A Post Contingency Local Load Relief Warning has been issued to maintain NASHNTN 69 KV *H02 at 63.5 KV in the AEP for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available | AEP |

Non-Market PCLLRW (2 Events)

| Effective Start Time | Effective End Time | Message | Region |
|-----------------------------|---------------------------|--|---------------|
| 04.14.2023 16:23 | 04.14.2023 22:36 | A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain SMAWA-UPPERSAD at 133.0 MVA in the RECO for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available | RECO |
| 04.04.2023 18:55 | 04.10.2023 12:27 | A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain EXPRESSW-PERKINST EXP-PERT at 78.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available | AEP |

Geomagnetic Disturbance (1 Event)

| Effective Start Time | Effective End Time | Message | Region |
|-----------------------------|---------------------------|---|---------------|
| 04.23.2023 15:29 | 04.24.2023 08:00 | A Geomagnetic Disturbance Warning has been issued for 15:29 on 04.23.2023 through 08:00 on 04.24.2023. A GMD warning of K7 or greater is in effect for this period. | PJM-RTO |

High System Voltage (4 Event)

| Effective Start Time | Effective End Time | Message | Region |
|-----------------------------|---------------------------|--|---------------|
| 04.29.2023 23:30 | 04.30.2023 10:00 | A High System Voltage Action has been issued | PJM-RTO |
| 04.29.2023 03:03 | 04.29.2023 08:05 | A High System Voltage Action has been issued | PJM-RTO |
| 04.22.2023 22:55 | 04.23.2023 13:20 | A High System Voltage Action has been issued | PJM-RTO |
| 04.22.2023 00:40 | 04.22.2023 08:00 | A High System Voltage Action has been issued | PJM-RTO |

Voltage Reduction Warning (0 Event(s))

Voltage Reduction (0 Event(s))

Manual Load Dump Event (0 Event(s))

Manual Load Dump Warning (0 Event(s))

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Max Emergency Gen Alert (0 Event(s))

Max Emergency Generation (0 Event(s))

Min Gen Alert (0 Event(s))

Min Gen Declaration (0 Event(s))

Non-Market PCLLRW (0 Event(s))

Local Min Generation Event (0 Event(s))

Hot Weather Alert (0 Event(s))

HLV Schedule Warning (0 Event(s))

HLV Schedule Action (0 Event(s))

Primary Reserve Warning (0 Event(s))

Manual Load Dump Warning (0 Event(s))

Emergency Energy Request (0 Event(s))