

System Operations Subcommittee

PJM Operations Summary

March 2024 Operations

March Events:

2 Shared Reserve Events

4 PCLLRW Events

3 Non-Market PCLLRW Events

1 Geomagnetic Disturbance Warning Event

1 High System Voltage Event

CPS1: 131.50% CPS2: 80.43% BAAL: 99.87%

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.

Shared Reserve (2 Events)

| Effective Start Time | Effective End Time | Message | Region |
|-----------------------------|---------------------------|---|---------------|
| 03.26.2024 11:29 | 03.26.2024 11:50 | PJM provided 127 MW of NPCC Shared Reserves | NPCC |
| 03.03.2024 19:45 | 03.03.2024 20:00 | PJM provided 73 MW of NPCC Shared Reserves | NPCC |

PCLLRW (4 Events)

| Effective Start Time | Effective End Time | Message | Region |
|-----------------------------|---------------------------|---|---------------|
| 03.20.2024 17:11 | 03.20.2024 17:19 | A Post Contingency Local Load Relief Warning has been issued to maintain NEWBERRY 115 KV 115KV at 105.8 KV in the FE(ME) for Transmission Contingency Control. Additional Comments: Generation - slow response | FE-ME |
| 03.05.2024 18:43 | 03.07.2024 13:26 | A Post Contingency Local Load Relief Warning has been issued to maintain TYNER 161 KV ND_141 at 148.9 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available | EKPC |
| 03.01.2024 06:47 | 03.01.2024 11:27 | A Post Contingency Local Load Relief Warning has been issued to maintain OPEQUON 138 KV 138-B at 127.0 KV in the FE(APS) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available | FE-AP |
| 02.29.2024 06:47 | 03.04.2024 09:52 | A Post Contingency Local Load Relief Warning has been issued to maintain LEON_EKP 69 KV ND_181 at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available | EKPC |

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Non-Market PCLLRW (3 Event)

| Effective Start Time | Effective End Time | Message | Region |
|-----------------------------|---------------------------|--|---------------|
| 03.26.2024 11:18 | 03.29.2024 16:44 | A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain RUSSELCO 69 KV ND_184 at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available | EKPC |
| 03.22.2024 08:47 | 03.22.2024 16:54 | A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain SEWELLTN 69 KV ND_185 at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available | EKPC |
| 03.04.2024 19:06 | 03.05.2024 04:39 | A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain FALLROCK 161 KV ND_143 at 148.9 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available | EKPC |

Geomagnetic Disturbance Warning (1 Event)

| Effective Start Time | Effective End Time | Message | Region |
|-----------------------------|---------------------------|---|---------------|
| 03.24.2024 12:00 | 03.25.2024 02:00 | A Geomagnetic Disturbance Warning has been issued for 12:00 on 03.24.2024 through 02:00 on 03.25.2024 . A GMD warning of K-7 or greater is in effect for this period. | RTO |

High System Voltage (1 Event)

| Effective Start Time | Effective End Time | Message | Region |
|-----------------------------|---------------------------|---|---------------|
| 03.30.2024 23:30 | 03.31.2024 17:00 | A High System Voltage Action has been issued; all companies shall take the following actions on the Bulk Electric System: | RTO |

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Conservative Operations (0 Event(s))

Cold Weather Alert (0 Event(s))

Cold Weather Advisory (0 Event(s))

TLR (0 Event(s))

Special Notices (0 Event(s))

Geomagnetic Disturbance Warning (0 Event(s))

Hot Weather Alert (0 Event(s))

Maximum Generation Emergency/Load Management Alert (0 Event(s))

Maintenance Outage Recall (0 Events)

Unit Startup Notification Alert (0 Event(s))

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))

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))

Local Min Generation Event (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))