

## System Operations Subcommittee

### PJM Operations Summary

#### November 2023 Operations

#### November Events:

- 1 Shared Reserve Event**
- 2 Synchronized Reserve Events**
- 22 PCLLRW Events**
- 5 Non-Market PCLLRW Event**
- 2 High System Voltage Events**
- 1 Geomagnetic Disturbance Warning Event**

**CPS1: 132.49% CPS2: 80.64% BAAL: 99.90%**

<sup>1</sup>PJM 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 (1 Event)

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
11.21.2023 06:02	11.21.2023 06:18	PJM provided 125 MW of NPCC Shared Reserves	NPCC

#### Synchronized Reserve Event (2 Events)

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
11.10.2023 01:21	11.10.2023 01:29	100% Synchronized Reserve Event has been initiated for the PJM_RTO region.	RTO
11.07.2023 16:19	11.07.2023 16:24	100% Synchronized Reserve Event has been initiated for the PJM_RTO region.	RTO

#### PCLLRW (22 Events)

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
11.29.2023 10:10	11.29.2023 11:09	A Post Contingency Local Load Relief Warning has been issued to maintain ECLIPSE-PINEY PM 1038 at 190.0 MVA in the FE(PN) for Transmission Contingency Control. Additional Comments: Generation - slow response	FE-PN
11.29.2023 08:32	11.29.2023 19:21	A Post Contingency Local Load Relief Warning has been issued to maintain WOOSTER 138 KV BB_11146 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
11.29.2023 07:41	11.29.2023 08:50	A Post Contingency Local Load Relief Warning has been issued to maintain FALCON2 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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11.29.2023 06:43	11.29.2023 08:37	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 for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	EKPC
11.29.2023 04:06	11.29.2023 19:21	A Post Contingency Local Load Relief Warning has been issued to maintain NBRISTOL 138 KV BB_3269 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
11.29.2023 02:34		A Post Contingency Local Load Relief Warning has been issued to maintain CROOKSVJ 69 KV ND_185 at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	EKPC
11.28.2023 07:25		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: Load -No Generation or Switching available	EKPC
11.14.2023 09:28	11.14.2023 09:56	A Post Contingency Local Load Relief Warning has been issued to maintain 138 SILVER 38TR82 CT at 465.0 MVA in the COMED for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	COMED
11.07.2023 13:40	11.07.2023 15:16	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
11.07.2023 11:11	11.11.2023 06:44	A Post Contingency Local Load Relief Warning has been issued to maintain RIVERPRT 138 KV *E03 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
11.07.2023 11:11		A Post Contingency Local Load Relief Warning has been issued to maintain MORELAND 138 KV BB_3234 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
11.03.2023 06:56	11.03.2023 15:06	A Post Contingency Local Load Relief Warning has been issued to maintain BROOKVI2 138 KV BB_5124 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP

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11.02.2023 07:55	11.03.2023 16:28	A Post Contingency Local Load Relief Warning has been issued to maintain COLLIER T1 XFORMER at 374.0 MVA in the DUQU for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DUQ
11.02.2023 07:55	11.02.2023 08:31	A Post Contingency Local Load Relief Warning has been issued to maintain ALLENMOD-JACKMAN ALL-JAC2 at 226.0 MVA in the FE(ATSI) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	FE-ATSI
11.02.2023 07:27	11.02.2023 19:24	A Post Contingency Local Load Relief Warning has been issued to maintain CLIFFORD 138 KV BB_5287 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
11.02.2023 07:26	11.02.2023 07:49	A Post Contingency Local Load Relief Warning has been issued to maintain SKIMMER4 115 KV H at 105.0 KV in the DOM for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DOM
11.02.2023 06:54	11.02.2023 17:02	A Post Contingency Local Load Relief Warning has been issued to maintain BEDINGTO-OPEQUON BOPE at 286.0 MVA in the FE(APS) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	FE-AP
11.02.2023 06:19	11.02.2023 19:25	A Post Contingency Local Load Relief Warning has been issued to maintain COLLEEN 138 KV *E03 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
11.01.2023 10:22	11.09.2023 08:30	A Post Contingency Local Load Relief Warning has been issued to maintain STURGIS 69 KV BB_23657 at 63.5 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
11.01.2023 07:05	11.01.2023 12:22	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
10.26.2023 16:44	11.03.2023 15:06	A Post Contingency Local Load Relief Warning has been issued to maintain MORELAND 138 KV BB_3234 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP

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10.22.2023 19:30	11.29.2023 19:22	A Post Contingency Local Load Relief Warning has been issued to maintain SKENTON 138 KV BB_14019 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
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#### Non-Market PCLLRW (5 Event)

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
11.29.2023 06:59	11.29.2023 08:35	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BRODHA 69 KV ND_184 at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	EKPC
11.29.2023 06:53	11.29.2023 08:35	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain MANCHST2 69 KV ND_183 at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	EKPC
11.13.2023 19:04		A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain EXPRESSW-PERKINST EXP-PERT at 86.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Market Priority 6 Facility	AEP
11.13.2023 04:13	11.13.2023 05:15	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain EXPRESSW-PERKINST EXP-PERT at 91.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Generation redispatch available	AEP
11.01.2023 07:00	11.01.2023 17:00	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain EXPRESSW-PERKINST EXP-PERT at 89.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP

#### High System Voltage (2 Event)

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
11.07.2023 00:25	11.07.2023 05:35	A High System Voltage Action has been issued; all companies shall take the following actions on the Bulk Electric System:  <ol style="list-style-type: none"><li>1. All switchable capacitors are out of service.</li><li>2. All reactors are in service.</li><li>3. TOs are requested to review and adjust LTC settings as</li></ol>	RTO

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11.04.2023 01:00	11.06.2023 06:00	appropriate. All LTC (230 kV and above) and voltage schedule adjustments shall be coordinated with PJM Dispatch. 4. All SVCs are absorbing reactive power. 5. Generation Owners shall operate generators at the lower bandwidth of their voltage schedule when possible. 6. Generation Owners shall communicate with PJM and the TO restrictions to their generator's ability to absorb MVARs if that capability varies from the existing "D" curve.	RTO
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**Geomagnetic Disturbance Warning (1 Event)**

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
11.05.2023 11:36	11.05.2023 19:00	A Geomagnetic Disturbance Warning has been issued for 11:36 on 11.05.2023 through 19:00 on 11.05.2023 . A GMD warning of K-7 or greater is in effect for this period.	RTO

**Hot Weather Alert (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))**