

**System Operations Subcommittee**

**PJM Operations Summary**

**September 2024 Operations**

**September Events:**

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

**CPS1: 140.92% CPS2: 84.00% BAAL: 99.94%**

<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>
09.23.2024 07:22	09.23.2024 07:52	PJM provided 250 MW of NPCC Shared Reserves	NPCC

**High System Voltage (1 Event)**

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
09.08.2024 00:30	09.08.2024 09:00	<p>A High System Voltage Action has been issued; all companies shall take the following actions on the Bulk Electric System:</p> <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 appropriate. All LTC (230 kV and above) and voltage schedule adjustments shall be coordinated with PJM Dispatch.</li><li>4. All SVCs are absorbing reactive power.</li><li>5. Generation Owners shall operate generators at the lower bandwidth of their voltage schedule when possible.</li><li>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.</li></ol> <p>Target: Distribution Companies/Transmission Owners/Generation</p>	RTO

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**Geomagnetic Disturbance Warning (2 Events)**

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
09.16.2024 21:27	09.17.2024 08:00	A Geomagnetic Disturbance Warning has been issued for 21:27 on 09.16.2024 through 08:00 on 09.17.2024 . A GMD warning of K-7 or greater is in effect for this period.	RTO
09.12.2024 09:52	09.12.2024 17:00	A Geomagnetic Disturbance Warning has been issued for 09:52 on 09.12.2024 through 17:00 on 09.12.2024 . A GMD warning of K7 or greater is in effect for this period.	RTO

**Non-Market PCLLRW (2 Events)**

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
09.23.2024 16:03	09.24.2024 20:15	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain FRGSNSOU-SMRST_EK TIE at 112 MVA in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	EKPC
09.20.2024 16:15	09.21.2024 07:34	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain FRGSNSOU-SMRST_EK TIE at 112.0 MVA in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	EKPC

**PCLLRW (30 Events)**

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
09.30.2024 11:54	09.30.2024 12:50	A Post Contingency Local Load Relief Warning has been issued to maintain MEHOOPAN 115 KV *F06 at 105.8 KV in the FE(PN) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	FE-PN
09.30.2024 11:35	09.30.2024 11:44	A Post Contingency Local Load Relief Warning has been issued to maintain MEHOOPAN 115 KV *F06 at 105.8 KV in the FE(PN) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	FE-PN
09.30.2024 09:40		A Post Contingency Local Load Relief Warning has been issued to maintain GRASSYCR 138 KV BB_3015 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.30.2024 09:25		A Post Contingency Local Load Relief Warning has been issued to maintain MEADOWVI 138 KV BB_3222 at 127.0 KV in the AEP for Transmission Contingency Control.	AEP

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		Additional Comments: Load -No Generation or Switching available	
09.30.2024 09:22		A Post Contingency Local Load Relief Warning has been issued to maintain BROADFO2-SALTVILL 2 at 273.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.30.2024 07:36	09.30.2024 09:33	A Post Contingency Local Load Relief Warning has been issued to maintain BROADFO2-SALTVILL 2 at 282.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.29.2024 12:22	09.29.2024 16:58	A Post Contingency Local Load Relief Warning has been issued to maintain GARDENCR 138 KV BB_4675 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.28.2024 15:38	09.29.2024 12:23	A Post Contingency Local Load Relief Warning has been issued to maintain GARDENCR 138 KV BB_4675 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.28.2024 13:45		A Post Contingency Local Load Relief Warning has been issued to maintain GRASSYCR 138 KV BB_3015 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.28.2024 11:04	09.28.2024 13:41	A Post Contingency Local Load Relief Warning has been issued to maintain GARDENCR 138 KV BB_4675 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.27.2024 22:04		A Post Contingency Local Load Relief Warning has been issued to maintain EDENSRID 138 KV *E03 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
09.27.2024 19:18	09.28.2024 13:41	A Post Contingency Local Load Relief Warning has been issued to maintain GARDENCR 138 KV BB_4675 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.25.2024 12:04		A Post Contingency Local Load Relief Warning has been issued to maintain RIVERVIL 138 KV *E14 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP

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09.24.2024 06:33	09.24.2024 06:38	A Post Contingency Local Load Relief Warning has been issued to maintain BOXWOOD 138 KV *E01 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Lack of reactive support in area	AEP
09.23.2024 19:18	09.23.2024 20:21	A Post Contingency Local Load Relief Warning has been issued to maintain BENTMOUN-CLEARBRO at 193.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.23.2024 14:33	09.23.2024 16:09	A Post Contingency Local Load Relief Warning has been issued to maintain ABINGDON 138 KV BB_2760 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: No reactive support in area that can be placed in service.	AEP
09.22.2024 15:23	09.22.2024 23:30	A Post Contingency Local Load Relief Warning has been issued to maintain SBALTIMO-WMILLERS at 167.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.20.2024 18:14	09.20.2024 18:26	A Post Contingency Local Load Relief Warning has been issued to maintain SWLIMA-WMOULTON at 223.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.20.2024 17:40	09.20.2024 19:34	A Post Contingency Local Load Relief Warning has been issued to maintain WMOULTON-09ST_MRY at 136 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP, DAY
09.20.2024 16:19	09.20.2024 19:33	A Post Contingency Local Load Relief Warning has been issued to maintain BLACKLIC-GAHANNA at 145.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.20.2024 15:21	09.20.2024 22:25	A Post Contingency Local Load Relief Warning has been issued to maintain SBALTIMO-WMILLERS at 167.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.18.2024 17:36	09.19.2024 21:35	A Post Contingency Local Load Relief Warning has been issued to maintain SBALTIMO-WMILLERS at 167.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP

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09.18.2024 14:03	09.18.2024 14:56	A Post Contingency Local Load Relief Warning has been issued to maintain MEADOWVI 138 KV BB_3222 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.17.2024 15:49	09.17.2024 16:45	A Post Contingency Local Load Relief Warning has been issued to maintain CEN-RIC AEP-CIN TIE at 67.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Generation - slow response	AEP
09.17.2024 15:32	09.17.2024 16:45	A Post Contingency Local Load Relief Warning has been issued to maintain CEN-RIC AEP-CIN TIE at 67.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Generation - slow response	AEP
09.16.2024 09:07	09.16.2024 18:39	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
09.05.2024 16:08	09.05.2024 22:33	A Post Contingency Local Load Relief Warning has been issued to maintain BENTONHA-RIVERSIM BEN-RIV2 at 246.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.05.2024 15:28	09.05.2024 22:33	A Post Contingency Local Load Relief Warning has been issued to maintain BENTONHA-WESTSTRE at 249.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.04.2024 19:11	09.04.2024 19:58	A Post Contingency Local Load Relief Warning has been issued to maintain MIFFLIN-STELZER at 216.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.04.2024 19:10	09.04.2024 19:58	A Post Contingency Local Load Relief Warning has been issued to maintain KARL-L48 KAR-L48 at 132.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP

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**Cold Weather Advisory (0 Events)**  
**Cold Weather Alert (0 Events)**  
**Conservative Operations (0 Events)**  
**Curtailment of Non-Essential Building Load (0 Events)**  
**Deploy All Resources Action (0 Events)**  
**Emergency Energy Request (0 Events)**  
**Emergency Load Mgmt Reduction Action (0 Events)**  
**Emergency Voluntary Energy Only Demand Response (0 Events)**  
**Gas Pipeline Contingencies (0 Events)**  
**Geomagnetic Disturbance Action (0 Events)**  
**HLV Action (0 Events)**  
**HLV Warning (0 Events)**  
**Hot Weather Alert (0 Events)**  
**IROL - Information Only (0 Events)**  
**Load Shed Directive (0 Events)**  
**Local Minimum Generation Event (0 Events)**  
**Low Voltage Alert (0 Events)**  
**Maintenance Outage Recall (0 Events)**  
**Manual Load Dump Action (0 Events)**  
**Manual Load Dump Warning (0 Events)**  
**Maximum Generation Emergency/Load Management Alert (0 Events)**  
**Maximum Generation Emergency Action (0 Events)**  
**Minimum Generation Advisory (0 Events)**  
**Minimum Generation Alert (0 Events)**  
**Minimum Generation Emergency Declaration (0 Events)**  
**Minimum Generation Event (0 Events)**  
**Pre-Emergency Load Mgmt Reduction Action (0 Events)**  
**Primary Reserve Alert (0 Events)**  
**Primary Reserve Warning (0 Events)**  
**Synchronized Reserve Event (0 Events)**  
**TLR (0 Events)**  
**Unit Startup Notification Alert (0 Events)**  
**Voltage Reduction Action (0 Events)**  
**Voltage Reduction Alert (0 Events)**  
**Voltage Reduction Warning and Reduction of NCPL (0 Events)**