

## System Operations Subcommittee

### PJM Operations Summary

#### December 2023 Operations

#### December Events:

**1 Shared Reserve Event**

**14 PCLLRW Events**

**4 Non-Market PCLLRW Events**

**2 High System Voltage Events**

**2 Synchronized Reserve Events**

**1 Geomagnetic Disturbance Warning Event**

**CPS1: 139.69% CPS2: 85.10% 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>
12.19.2023 09:55	12.19.2023 10:12	PJM received 600 MW of NPCC Shared Reserves	NPCC

#### PCLLRW (14 Events)

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
12.22.2023 06:46	12.22.2023 14:42	A Post Contingency Local Load Relief Warning has been issued to maintain SHAWVILL BNK 1A-S GSU XFMR at 126.0 MVA in the FE(PN) for Transmission Contingency Control. Additional Comments: Generation - slow response	FE-PN
12.20.2023 06:53	12.20.2023 07:32	A Post Contingency Local Load Relief Warning has been issued to maintain ORRTANNA 115 KV *F06 at 105.8 KV in the FE(ME) for Transmission Contingency Control. Additional Comments: Generation - slow response	FE-ME
12.14.2023 09:10	12.19.2023 16:35	A Post Contingency Local Load Relief Warning has been issued to maintain PADFORK 138 KV BB_4215 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
12.14.2023 06:16	12.17.2023 18:21	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
12.12.2023 06:51	12.12.2023 07:24	A Post Contingency Local Load Relief Warning has been issued to maintain LEMOYNE2 -WFREMONT LEM-WFR at 225.0 MVA in	FE-ATSI

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		the FE(ATSI) for Transmission Contingency Control. Additional Comments: Generation - slow response	
12.12.2023 06:42	12.12.2023 06:51	A Post Contingency Local Load Relief Warning has been issued to maintain LEMOYNE2 -WFREMONT LEM-WFR at 225.0 MVA in the FE(ATSI) for Transmission Contingency Control. Additional Comments: Generation - slow response	FE-ATSI
12.12.2023 06:34	12.15.2023 16:41	A Post Contingency Local Load Relief Warning has been issued to maintain TOPMOST 138 KV BB_2214 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
12.12.2023 06:31	12.15.2023 12:48	A Post Contingency Local Load Relief Warning has been issued to maintain ARGNT_EK 69 KV ND_185 at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	EKPC
12.12.2023 06:30	12.15.2023 12:48	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: Post Contingency Switching available	EKPC
12.11.2023 20:09	12.15.2023 16:40	A Post Contingency Local Load Relief Warning has been issued to maintain BONNYMAN 138 KV *E03 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
12.07.2023 06:16	12.09.2023 18:50	A Post Contingency Local Load Relief Warning has been issued to maintain TOPMOST 138 KV BB_2214 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	12.01.2023 07:17	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	12.08.2023 16:43	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
11.07.2023 11:11	12.05.2023 19:48	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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**Non-Market PCLLRW (4 Event)**

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
12.12.2023 07:11	12.15.2023 12:47	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
12.11.2023 19:47	12.15.2023 12:48	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain CYNTHIA2 69 KV ND_188 at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	EKPC
12.11.2023 19:10	12.14.2023 17:59	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain EXPRESSW-PERKINST EXP-PERT at 88.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
11.13.2023 19:04	12.09.2023 19:02	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

**High System Voltage (2 Event)**

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
12.17.2023 00:01	12.17.2023 06:20	A High System Voltage Action has been issued; all companies shall take the following actions on the Bulk Electric System:  1. All switchable capacitors are out of service. 2. All reactors are in service. 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.	RTO
12.03.2023 01:34	12.03.2023 06:53	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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**Synchronized Reserve Event (2 Events)**

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
12.19.2023 09:51	12.19.2023 09:57	100% Synchronized Reserve Event has been initiated for the PJM_RTO region.	RTO
12.14.2023 19:41	12.14.2023 19:53	100% Synchronized Reserve Event has been initiated for the PJM_RTO region.	RTO

**Geomagnetic Disturbance Warning (1 Event)**

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
12.01.2023 06:55	12.01.2023 16:00	A Geomagnetic Disturbance Warning has been issued for 06:55 on 12.01.2023 through 16:00 on 12.01.2023 . A GMD warning of K7 or greater is in effect for this period. Additional Comments: End time extended to 1600 EST	RTO

**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))**