

System Operations Subcommittee

PJM Operations Summary

September 2023 Operations

September Events:

5 Shared Reserve Events

1 Geomagnetic Disturbance Warning Event

17 PCLLRW Events

1 Non-Market PCLLRW Event

5 Hot Weather Alert Events

1 High System Voltage Event

CPS1: 137.91% CPS2: 83.84% BAAL: 99.97%

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 (5 Events)

Effective Start Time	Effective End Time	Message	Region
09.09.2023 11:46	09.09.2023 12:10	PJM provided 77 MW of NPCC Shared Reserves	NPCC
09.07.2023 17:59	09.07.2023 18:10	PJM provided 38 MW of NPCC Shared Reserves	NPCC
09.07.2023 10:29	09.07.2023 10:59	PJM provided 133 MW of NPCC Shared Reserves	NPCC
09.06.2023 12:35	09.06.2023 13:03	PJM provided 125 MW of NPCC Shared Reserves	NPCC
09.02.2023 06:34	09.02.2023 06:50	PJM provided 193 MW of NPCC Shared Reserves	NPCC

Geomagnetic Disturbance Warning (1 Event)

Effective Start Time	Effective End Time	Message	Region
09.19.2023 00:04	09.19.2023 05:00	A Geomagnetic Disturbance Warning has been issued for 00:04 on 09.19.2023 through 05:00 on 09.19.2023 . A GMD warning of K-7 or greater is in effect for this period.	RTO

PCLLRW (17 Events)

Effective Start Time	Effective End Time	Message	Region
09.27.2023 13:39	09.27.2023 13:59	A Post Contingency Local Load Relief Warning has been issued to maintain SKIMMER 115 KV BB_6622 at 105.8 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.26.2023 09:22	09.26.2023 11:25	A Post Contingency Local Load Relief Warning has been issued to maintain WKINGSPO 138 KV BB_3519 at 127.0 KV in the AEP for Transmission Contingency Control.	AEP

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		Additional Comments: Load -No Generation or Switching available	
09.25.2023 12:00		A Post Contingency Local Load Relief Warning has been issued to maintain BUSSEYVI 138 KV BB_2443 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP, EKPC
09.20.2023 12:42	09.23.2023 10:57	A Post Contingency Local Load Relief Warning has been issued to maintain REEDYCRE 138 KV *E01 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.12.2023 17:44	09.12.2023 18:09	A Post Contingency Local Load Relief Warning has been issued to maintain ELMONT4 TX2 XFORMER at 1080.0 MVA in the DOM for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DOM
09.12.2023 17:14	09.12.2023 18:10	A Post Contingency Local Load Relief Warning has been issued to maintain CRANBERY-HOYTDAL2 CRA-HOY at 357 MVA in the FE(ATSI) for Transmission Contingency Control. Additional Comments: Generation - slow response	FE-AP, FE-ATSI, FE-ME
09.12.2023 14:51	09.12.2023 20:25	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: Exhausted voltage support actions	FE-AP
09.07.2023 15:15	09.07.2023 20:17	A Post Contingency Local Load Relief Warning has been issued to maintain CHURCH-MASSEYRE 6727-1 at 64.0 MVA in the DPL for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DPL
09.06.2023 19:47	09.06.2023 21:20	A Post Contingency Local Load Relief Warning has been issued to maintain FARMVILL TX5 XFORMER at 203.0 MVA in the DOM for Transmission Contingency Control. Additional Comments: Generation - slow response	DOM
09.06.2023 18:00	09.06.2023 20:43	A Post Contingency Local Load Relief Warning has been issued to maintain CHURCH-MASSEYRE 6727-1 at 64.0 MVA in the DPL for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DPL
09.06.2023 17:06	09.06.2023 18:55	A Post Contingency Local Load Relief Warning has been issued to maintain WARRINGT 875 CB at 702.0 MVA in the PE for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	PECO
09.06.2023 16:46	09.06.2023 17:06	A Post Contingency Local Load Relief Warning has been issued to maintain WARRINGT 875 CB at 702.0 MVA in the PE for	PECO

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		Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	
09.05.2023 17:49	09.05.2023 21:18	A Post Contingency Local Load Relief Warning has been issued to maintain OHIOCENT-SCOSHOCT at 167.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Generation - slow response	AEP
09.05.2023 17:45	09.05.2023 19:48	A Post Contingency Local Load Relief Warning has been issued to maintain CHURCH-MASSEYRE 6727-1 at 64.0 MVA in the DPL for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DPL
09.05.2023 15:15	09.06.2023 04:25	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
09.03.2023 16:49	09.03.2023 19:07	A Post Contingency Local Load Relief Warning has been issued to maintain CYPRUS-WHITERD CYP-WHIT at 63.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
08.08.2023 10:32	09.26.2023 12:25	A Post Contingency Local Load Relief Warning has been issued to maintain ADAMSIM 138 KV *E04 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP

Non-Market PCLLRW (1 Events)

Effective Start Time	Effective End Time	Message	Region
09.06.2023 12:22	09.07.2023 08:52	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: Post -contingency 69kV CAP @ 3M will be placed in-service	EKPC

Hot Weather Alert (5 Events)

Effective Start Time	Effective End Time	Message	Region
09.08.2023 07:00	09.08.2023 23:00	A Hot Weather Alert has been issued from 07:00 on 09.08.2023 through 23:00 on 09.08.2023 Per M-13, members are expected to perform: TRANSMISSION/GEN DISPATCH review plans to determine if any	SOUTHERN, MIDATL

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		maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled.	
09.07.2023 07:00	09.07.2023 23:00	A Hot Weather Alert has been issued from 07:00 on 09.07.2023 through 23:00 on 09.07.2023 Per M-13, members are expected to perform: TRANSMISSION/GEN DISPATCH review plans to determine if any maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled.	MIDATL, SOUTHERN
09.06.2023 07:00	09.06.2023 23:00	A Hot Weather Alert has been issued from 07:00 on 09.06.2023 through 23:00 on 09.06.2023 Per M-13, members are expected to perform: TRANSMISSION/GEN DISPATCH review plans to determine if any maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled.	RTO
09.05.2023 07:00	09.05.2023 23:00	A Hot Weather Alert has been issued from 07:00 on 09.05.2023 through 23:00 on 09.05.2023 Per M-13, members are expected to perform: TRANSMISSION/GEN DISPATCH review plans to determine if any maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled.	RTO
09.04.2023 07:00	09.04.2023 23:00	A Hot Weather Alert has been issued from 07:00 on 09.04.2023 through 23:00 on 09.04.2023 Per M-13, members are expected to perform: TRANSMISSION/GEN DISPATCH review plans to determine if any maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled.	RTO

High System Voltage (1 Event)

Effective Start Time	Effective End Time	Message	Region
09.23.2023 23:30	09.24.2023 09:30	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"> 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. 4. All SVCs are absorbing reactive power. 5. Generation Owners shall operate generators at the lower 	RTO

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		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.	
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Synchronized Reserve Event (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))