

System Operations Subcommittee

PJM Operations Summary

December 2022 Operations

December Events:

- 8 Shared Reserve Event**
- 5 Synchronized Reserve Event**
- 3 Cold Weather Alert**
- 2 Cold Weather Advisory**
- 43 PCLLRW Events**
- 7 Non-Market PCLLRW**
- 5 Pre-Emergency Load Management Reduction Action**
- 5 Emergency Load Management Reduction Action**
- 2 Maximum Generation Emergency/Load Management Alert**
- 2 Maximum Generation Emergency Action**
- 1 Voltage Reduction Alert**
- 1 Voltage Reduction Warning and Reduction of NCPL**

CPS1: 126.72% CPS2: 81.83% BAAL: 99.50%

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 (8 Event)

Effective Start Time	Effective End Time	Message	Region
12.26.2022 00:11	12.26.2022 00:30	PJM provided 85 MW of NPCC Shared Reserves	NPCC
12.24.2022 13:59	12.24.2022 14:14	PJM provided 73 MW of NPCC Shared Reserves	NPCC
12.24.2022 04:26	12.24.2022 04:47	PJM received 1000 MW of NPCC Shared Reserves	NPCC
12.24.2022 02:25	12.24.2022 04:26	PJM received 605 MW of NPCC Shared Reserves	NPCC
12.23.2022 23:08	12.23.2022 23:21	PJM provided 69 MW of NPCC Shared Reserves	NPCC
12.23.2022 17:36	12.23.2022 23:08	PJM received 1000 MW of NPCC Shared Reserves	NPCC
12.23.2022 16:57	12.23.2022 17:36	PJM received 1500 MW of NPCC Shared Reserves	NPCC
12.13.2022 23:59	12.14.2022 00:20	PJM provided 89 MW of NPCC Shared Reserves	NPCC

Synchronized Reserve (5 Event)

Effective Start Time	Effective End Time	Message	Region
12.24.2022 04:23	12.24.2022 05:51	100% Synchronized Reserve Event has been initiated for the PJM_RTO region.	PJM-RTO
12.24.2022 02:23	12.24.2022 02:54	100% Synchronized Reserve Event has been initiated for the PJM_RTO region.	PJM-RTO

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12.24.2022 00:04	12.24.2022 00:30	100% Synchronized Reserve Event has been initiated for the PJM_RTO region.	PJM-RTO
12.23.2022 16:17	12.23.2022 18:09	100% Synchronized Reserve Event has been initiated for the PJM_RTO region.	PJM-RTO
12.23.2022 10:14	12.23.2022 10:25	100% Synchronized Reserve Event has been initiated for the PJM_RTO region.	PJM-RTO

Cold Weather Alert (3 Event)

Effective Start Time	Effective End Time	Message	Region
12.26.2022 07:00	12.26.2022 23:00	A Cold Weather Alert has been issued from 07:00 on 12.26.2022 through 23:00 on 12.26.2022.	WESTERN
12.24.2022 00:00	12.25.2022 23:59	A Cold Weather Alert has been issued from 00:00 on 12.24.2022 through 23:59 on 12.25.2022.	PJM-RTO
12.23.2022 07:00	12.23.2022 23:00	A Cold Weather Alert has been issued from 07:00 on 12.23.2022 through 23:00 on 12.23.2022.	WESTERN

Cold Weather Advisory (2 Event)

Effective Start Time	Effective End Time	Message	Region
12.21.2022 10:00	12.22.2022 17:30	A Cold Weather Advisory has been issued from 10:00 on 12.21.2022 through 17:30 on 12.22.2022.	WESTERN
12.23.2022 07:00	12.26.2022 23:00	A Cold Weather Advisory has been issued from 07:00 on 12.23.2022 through 23:00 on 12.26.2022.	PJM-RTO

PCLLRW (52 Events)

Effective Start Time	Effective End Time	Message	Region
12.27.2022 10:12	12.29.2022 14:30	A Post Contingency Local Load Relief Warning has been issued to maintain SATURN 138 KV *E05 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	AEP
12.24.2022 08:07	12.24.2022 12:37	A Post Contingency Local Load Relief Warning has been issued to maintain HAYES 115 KV *F02 at 105.0 KV in the DOM for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	DOM
12.24.2022 07:33	12.24.2022 19:02	A Post Contingency Local Load Relief Warning has been issued to maintain CHESTER CHE52TR XFORMER at 65.0 MVA in the PE for Transmission Contingency Control. Additional Comments: Post Contingency Generation redispatch available	PECO
12.24.2022 07:30	12.24.2022 10:30	A Post Contingency Local Load Relief Warning has been issued to maintain CUMB PL 2 XFORMER at 272.0 MVA in the PL for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	PPL
12.24.2022 07:25	12.24.2022 10:29	A Post Contingency Local Load Relief Warning has been issued to maintain JUNIATA 1 XFORMER at 911 MVA in the PL for	PPL

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		Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	
12.24.2022 07:05	12.24.2022 12:50	A Post Contingency Local Load Relief Warning has been issued to maintain BLAINE 138 KV BB_5058 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	AEP
12.24.2022 07:04	12.24.2022 12:50	A Post Contingency Local Load Relief Warning has been issued to maintain FRANKLI2 138 KV BB_5631 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
12.24.2022 04:38	12.24.2022 19:02	A Post Contingency Local Load Relief Warning has been issued to maintain GOUDEY-LAURLAKE115 KVTIE at 149.0 MVA in the FE(PN) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	FE-PN
12.24.2022 04:29	12.26.2022 04:00	A Post Contingency Local Load Relief Warning has been issued to maintain MORGAN 138 KV *E06 at 127.0 KV in the FE(APS) for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	FE-AP
12.24.2022 00:56	12.24.2022 03:24	A Post Contingency Local Load Relief Warning has been issued to maintain GREYSPT-RAPPAHAN 1021A2 at 143.0 MVA in the DOM for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DOM
12.23.2022 22:15	12.24.2022 12:50	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: Load -No Generation or Switching available	AEP
12.23.2022 19:33	12.26.2022 01:41	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: Load - No Generation or Switching available	AEP EKPC
12.23.2022 18:05	12.23.2022 18:45	A Post Contingency Local Load Relief Warning has been issued to maintain CONASTON-PEACHBOT 5012 at 4030.0 MVA in the BC for Transmission Contingency Control. Additional Comments: Post Contingency Generation redispatch available	BGE PECO
12.23.2022 17:40	12.24.2022 01:57	A Post Contingency Local Load Relief Warning has been issued to maintain COOPERPE-PEACHTAP COO-PEA at 661.0 MVA in the PE for Transmission Contingency Control. Additional Comments: Post Contingency Generation redispatch available	PECO
12.23.2022 17:37	12.23.2022 18:57	A Post Contingency Local Load Relief Warning has been issued to maintain LAUSCHTO-SAKRON LAU-SAK4 at 938.0 MVA in the PL for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	PPL
12.23.2022 17:25	12.24.2022 01:57	A Post Contingency Local Load Relief Warning has been issued to maintain NOTTINGHM 1-3 SER DEV at 637.0 MVA in the PE for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	PECO
12.23.2022 17:20	12.24.2022 11:21	A Post Contingency Local Load Relief Warning has been issued to maintain HOWARD2-MELMORE at 199.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	AEP

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12.23.2022 16:57	12.24.2022 01:56	A Post Contingency Local Load Relief Warning has been issued to maintain CONASTON-NORTHWES 2322 at 934.0 MVA in the BC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	BGE
12.23.2022 16:53	12.23.2022 16:58	A Post Contingency Local Load Relief Warning has been issued to maintain CONASTON-NORTHWES 2322 at 934.0 MVA in the BC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	BGE
12.23.2022 10:11	12.24.2022 12:49	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
12.23.2022 10:10	12.24.2022 12:49	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
12.23.2022 09:20	12.26.2022 01:45	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: Load - No Generation or Switching available	EKPC
12.23.2022 08:48	12.23.2022 11:31	A Post Contingency Local Load Relief Warning has been issued to maintain BROADFO2-SALTVILL 2 at 303.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	AEP
12.23.2022 08:45	12.23.2022 11:31	A Post Contingency Local Load Relief Warning has been issued to maintain BROADFO2-SALTVILL 1 at 277.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	AEP
12.23.2022 08:26	12.26.2022 01:38	A Post Contingency Local Load Relief Warning has been issued to maintain COOP_EK -ELIHU TIE at 305.0 MVA in the EKPC for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	EKPC
12.23.2022 08:23	12.24.2022 11:21	A Post Contingency Local Load Relief Warning has been issued to maintain BROADFO2-SALTVILL 2 at 303.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	AEP
12.23.2022 08:22	12.23.2022 11:44	A Post Contingency Local Load Relief Warning has been issued to maintain THELMA-BUSSEYVI at 281.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	AEP
12.23.2022 08:14	12.24.2022 11:20	A Post Contingency Local Load Relief Warning has been issued to maintain KEYWOOD -WOLFHILL KEY-WOL1 at 210.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
12.23.2022 08:14	12.24.2022 11:21	A Post Contingency Local Load Relief Warning has been issued to maintain FORTROBI-WOLFHILL at 208.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	AEP
12.23.2022 08:14	12.24.2022 16:55	A Post Contingency Local Load Relief Warning has been issued to maintain ABINGDON-CLINCHRI at 210.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	AEP

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12.23.2022 07:26	12.23.2022 11:45	A Post Contingency Local Load Relief Warning has been issued to maintain SWLIMA-WMOULTON at 281.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	AEP
12.23.2022 07:03	12.24.2022 11:20	A Post Contingency Local Load Relief Warning has been issued to maintain BROADFO2-KEYWOOD BRO-KEY1 at 210.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
12.23.2022 05:48	12.26.2022 01:43	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
12.23.2022 05:34	12.26.2022 01:40	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
12.23.2022 04:11	12.23.2022 06:01	A Post Contingency Local Load Relief Warning has been issued to maintain SWLIMA-WMOULTON at 281.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
12.21.2022 01:59	12.21.2022 02:34	A Post Contingency Local Load Relief Warning has been issued to maintain 15518 -132 GARD 15518 2 at 211.0 MVA in the COMED for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	COMED
12.19.2022 19:00	12.19.2022 19:51	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: Load -No Generation or Switching available	FE-PN
12.19.2022 07:24	12.20.2022 22:29	A Post Contingency Local Load Relief Warning has been issued to maintain BUCKSKIN-GREENFIE at 72.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	AEP DAY
12.19.2022 06:19	12.19.2022 17:47	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: Load - No Generation or Switching available	EKPC
12.19.2022 03:44	12.19.2022 17:47	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: Load - No Generation or Switching available	EKPC
12.18.2022 18:33	12.18.2022 22:54	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.. MartinCounty and Sublett 69kV caps will be placed in-service	EKPC
12.16.2022 18:57	12.22.2022 15:31	A Post Contingency Local Load Relief Warning has been issued to maintain GEMINI 138 KV *E07 at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
12.12.2022 18:26	12.13.2022 22:45	A Post Contingency Local Load Relief Warning has been issued to maintain SUMM PN 115 KV *F01 at 105.8 KV in the FE(PN) for	FE-PN

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		Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available	
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Non-Market PCLLRW (7 Events)

Effective Start Time	Effective End Time	Message	Region
12.24.2022 06:12	12.24.2022 12:40	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BESTGTAP-CEDARPRK 110544 at 189.0 MVA in the BC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	BGE
12.23.2022 05:33	12.26.2022 01:40	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain LBRTYJCT 69 KV ND_1811 at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	EKPC
12.23.2022 03:39	12.23.2022 05:16	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain FRGSNSOU-SMRST_EK TIE at 86 MVA in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	EKPC
12.19.2022 07:06	12.21.2022 17:02	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain HIGHLND2 69 KV *H03 at 63.5 KV in the AEP for Transmission Contingency Control. Additional Comments: BES 2 Facility	AEP
12.17.2022 17:10	12.17.2022 20:05	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain HIGHLND2 69 KV *H03 at 63.5 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
12.12.2022 17:44	12.15.2022 23:33	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain HIGHLND2 69 KV *H03 at 63.5 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
12.01.2022 19:30	12.03.2022 02:55	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

Pre-Emergency Load Management Reduction Action (5 Events)

Effective Start Time	Effective End Time	Message	Region
12.24.2022 05:30	12.24.2022 20:30	A Pre-Emergency Load Mgmt Reduction Action has been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30 . Product(s) dispatched: Capacity Performance DR	AECO AEP BGE COMED DAY DEOK DOM DPL DUQ EKPC FE-AP FE-ATSI

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			FE-JC FE-ME FE-PN PECO PEPCO PPL PSEG RECO
12.24.2022 05:00	12.24.2022 20:30	A Pre-Emergency Load Mgmt Reduction Action has been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30 . Product(s) dispatched: Capacity Performance DR	AECO AEP BGE COMED DAY DEOK DOM DPL DUQ EKPC FE-AP FE-ATSI FE-JC FE-ME FE-PN PECO PEPCO PPL PSEG
12.24.2022 04:20	12.24.2022 20:30	A Pre-Emergency Load Mgmt Reduction Action has been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30 . Product(s) dispatched: Capacity Performance DR	AECO AEP BGE COMED DAY DEOK DOM DPL DUQ EKPC FE-AP FE-ATSI FE-JC FE-ME FE-PN PECO PEPCO PPL PSEG
12.23.2022 18:00	12.23.2022 22:15	A Pre-Emergency Load Mgmt Reduction Action has been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30 . Product(s) dispatched: Capacity Performance DR	AECO AEP BGE COMED DAY DEOK DOM

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			DPL DUQ EKPC FE-AP FE-ATSI FE-JC FE-ME FE-PN PECO PEPCO PPL PSEG
12.23.2022 17:30	12.23.2022 22:15	A Pre-Emergency Load Mgmt Reduction Action has been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30 . Product(s) dispatched: Capacity Performance DR	AECO AEP BGE COMED DAY DEOK DOM DPL DUQ EKPC FE-AP FE-ATSI FE-JC FE-ME FE-PN PECO PEPCO PPL PSEG

Emergency Load Management Reduction Action (5 Events)

Effective Start Time	Effective End Time	Message	Region
12.24.2022 05:30	12.24.2022 20:30	An Emergency Load Mgmt Reduction Action and a NERC level EEA2 have been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30 . Product(s) dispatched: Capacity Performance DR	AEP BGE COMED DAY DEOK DOM DPL DUQ EKPC FE-AP FE-ATSI FE-JC FE-PN PECO PEPCO

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12.24.2022 05:00	12.24.2022 20:30	An Emergency Load Mgmt Reduction Action and a NERC level EEA2 have been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30 . Product(s) dispatched: Capacity Performance DR	AEP COMED DOM DPL FE-ATSI FE-PN
12.24.2022 04:20	12.24.2022 20:30	An Emergency Load Mgmt Reduction Action and a NERC level EEA2 have been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30 . Product(s) dispatched: Capacity Performance DR	AEP BGE COMED DAY DOM DPL FE-AP FE-ATSI PPL
12.23.2022 18:00	12.23.2022 21:30	An Emergency Load Mgmt Reduction Action and a NERC level EEA2 have been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30 . Product(s) dispatched: Capacity Performance DR	AEP COMED DOM DPL FE-ATSI FE-PN
12.23.2022 17:45	12.23.2022 21:30	An Emergency Load Mgmt Reduction Action and a NERC level EEA2 have been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30 . Product(s) dispatched: Capacity Performance DR	AEP BGE COMED DAY DEOK DOM DPL DUQ EKPC FE-AP FE-ATSI FE-JC FE-PN PECO PEPCO

Maximum Generation Emergency/Load Management Alert (2 Events)

Effective Start Time	Effective End Time	Message	Region
12.24.2022 22:30	12.25.2022 22:00	A Maximum Generation Emergency/Load Management Alert and an EEA1 have been issued for 12.25.2022 . Maximum Generation Emergency has been called into the operating capacity. Per M-13, Generation Dispatchers should provide PJM with an estimate of the amount of time they need to return to service any generator on a Planned Outage. This 'Early Return Time' should be updated via eDART, and will not affect the Planned Outage estimated end date.	PJM-RTO

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12.23.2022 23:00	12.24.2022 22:00	A Maximum Generation Emergency/Load Management Alert and an EEA1 have been issued for 12.24.2022 . Maximum Generation Emergency has been called into the operating capacity. Per M-13, Generation Dispatchers should provide PJM with an estimate of the amount of time they need to return to service any generator on a Planned Outage. This 'Early Return Time' should be updated via eDART, and will not affect the Planned Outage estimated end date.	PJM-RTO
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Maximum Generation Emergency Action (2 Events)

Effective Start Time	Effective End Time	Message	Region
12.24.2022 04:25	12.24.2022 22:00	A Maximum Generation Emergency Action has been issued.	PJM-RTO
12.23.2022 17:30	12.23.2022 23:00	A Maximum Generation Emergency Action has been issued.	PJM-RTO

Voltage Reduction Alert (1 Events)

Effective Start Time	Effective End Time	Message	Region
12.24.2022 04:52	12.24.2022 18:34	A Voltage Reduction Alert has been issued for RTO. Estimated operating reserves are less than the Synchronized (or Spinning) Reserve requirement.	PJM-RTO

Voltage Reduction Warning and Reduction of NCPL (1 Events)

Effective Start Time	Effective End Time	Message	Region
12.24.2022 07:15	12.24.2022 18:15	A Voltage Reduction Warning and Reduction of NCPL has been issued. Actual Synchronized (or Spinning) Reserves are less than the Synchronized (or Spinning) Reserve requirement. PJM Member Actions: 1. Generation dispatchers order all generating stations to curtail non-essential station light and power.	PJM-RTO

Manual Load Dump Event (0 Event(s))

Manual Load Dump Warning (0 Event(s))

Min Gen Alert (0 Event(s))

Min Gen Declaration (0 Event(s))

Local Min Generation Event (0 Event(s))

Conservative Operations (0 Event(s))

High System Voltage (0 Event(s))

Hot Weather Alert (0 Event(s))

HLV Schedule Warning (0 Event(s))

HLV Schedule Action (0 Event(s))

Primary Reserve Warning (0 Event(s))

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Manual Load Dump Warning (0 Event(s))

Emergency Energy Request (0 Event(s))