

## System Operations Subcommittee

### PJM Operations Summary

#### February Operations

#### February Events:

**32 PCLLRW Events**

**4 Cold Weather Alerts**

**4 Non-Market PCLLRW Events**

**CPS1: 143.29% CPS2: 85.39% BAAL: 99.86%**

<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.

#### PCLLRW (32 Events)

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
02.21.2021 07:01	02.22.2021 15:11	A Post Contingency Local Load Relief Warning has been issued to maintain MORGANFK 138 KV at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
02.21.2021 04:07	02.22.2021 15:09	A Post Contingency Local Load Relief Warning has been issued to maintain GLENLYN-PETERSMO at 258.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Generation - slow response	AEP
02.20.2021 08:14	02.20.2021 10:52	A Post Contingency Local Load Relief Warning has been issued to maintain SOFTSHEL 138 KV at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
02.19.2021 08:28	02.19.2021 13:04	A Post Contingency Local Load Relief Warning has been issued to maintain BENTONHA-CRYSTAL at 210.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
02.17.2021 20:48	02.18.2021 00:23	A Post Contingency Local Load Relief Warning has been issued to maintain THELMA 138 KV at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
02.17.2021 05:30	02.17.2021 17:01	A Post Contingency Local Load Relief Warning has been issued to maintain EKPC at 86 MVA in the EKPC for Transmission Contingency Control. Additional Comments: New Non-Market Post Contingency Local Load Relief Warning for EKPC. As of 02-17-2021 05:30:01, a Non-Market Post Contingency Local Load Relief Warning to maintain line MVA flow below 86 MVA in the BARD_IND-E_BARDST TIE area of EKPC has been issued for	EKPC

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		Transmission Contingency Control. Additional Comments: Post-contingency Thermal on BARD_IND-E_BARDST TIE for the loss of L138.NelsonTap-NelsonC+138/68.NelsonC.T185. Post Contingency Switching Solution: NA	
02.17.2021 01:38	02.17.2021 13:40	A Post Contingency Local Load Relief Warning has been issued to maintain MEADOWBR-STRASBUR MST at 229.0 MVA in the FE(APS) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	FE-AP
02.16.2021 20:01	02.17.2021 09:00	A Post Contingency Local Load Relief Warning has been issued to maintain DOEX530-PIERCE1 at 464.0 MVA in the DEOK for Transmission Contingency Control. Additional Comments: Generation - slow response	DEOK
02.16.2021 18:03	02.17.2021 10:17	A Post Contingency Local Load Relief Warning has been issued to maintain CEDARCR2 1-P XFORMER at 127.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
02.16.2021 12:13	02.17.2021 02:13	A Post Contingency Local Load Relief Warning has been issued to maintain HOPKINS HOPKINS SER DEV at 248.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
02.16.2021 12:12	02.17.2021 13:56	A Post Contingency Local Load Relief Warning has been issued to maintain KEYWOOD -WOLFHILL KEY-WOL1 at 204.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
02.16.2021 11:17	02.17.2021 02:12	A Post Contingency Local Load Relief Warning has been issued to maintain HOPKINS-TRACEFOR at 294.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
02.16.2021 08:14	02.16.2021 09:39	A Post Contingency Local Load Relief Warning has been issued to maintain DOEX530-PIERCE1 at 464.0 MVA in the DEOK for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DEOK
02.16.2021 08:09	02.16.2021 09:39	A Post Contingency Local Load Relief Warning has been issued to maintain DOEX530-PIERCE2 at 464.0 MVA in the DEOK for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DEOK
02.16.2021 07:30	02.16.2021 09:16	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

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02.16.2021 07:24	02.17.2021 13:59	A Post Contingency Local Load Relief Warning has been issued to maintain CRYSTAL-HICKORYC at 210.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
02.16.2021 07:22	02.16.2021 09:24	A Post Contingency Local Load Relief Warning has been issued to maintain TYNER 161 KV at 148.9 KV in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	EKPC
02.16.2021 07:21	02.17.2021 13:58	A Post Contingency Local Load Relief Warning has been issued to maintain BENTONHA-CRYSTAL at 210.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
02.16.2021 07:06	02.17.2021 13:56	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
02.16.2021 06:44	02.17.2021 17:18	A Post Contingency Local Load Relief Warning has been issued to maintain THELMA 138 KV at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
02.16.2021 05:45	02.17.2021 02:13	A Post Contingency Local Load Relief Warning has been issued to maintain CHAUNCYT-LOGAN at 198.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
02.16.2021 04:43	02.16.2021 08:48	A Post Contingency Local Load Relief Warning has been issued to maintain BONNIEVL 138 KV at 127.7 KV in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	EKPC
02.16.2021 02:51	02.17.2021 17:20	A Post Contingency Local Load Relief Warning has been issued to maintain MORGANCO 69 KV at 63.5 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP EKPC
02.15.2021 10:27	02.17.2021 13:54	A Post Contingency Local Load Relief Warning has been issued to maintain EBERSOLE-FOSTORIA EBE-FOS2 at 229.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
02.15.2021 09:36	02.15.2021 16:23	A Post Contingency Local Load Relief Warning has been issued to maintain HAZARD 138 KV at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
02.14.2021 21:59	02.15.2021 16:31	A Post Contingency Local Load Relief Warning has been issued to maintain SOFTSHEL 138 KV at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP

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02.14.2021 19:21	02.15.2021 15:57	A Post Contingency Local Load Relief Warning has been issued to maintain BENTONHA-CRYSTAL at 210.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Generation - slow response	AEP
02.14.2021 19:21	02.15.2021 15:38	A Post Contingency Local Load Relief Warning has been issued to maintain BENTONHA-CRYSTAL at 210 MVA in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
02.08.2021 07:45	02.08.2021 08:56	A Post Contingency Local Load Relief Warning has been issued to maintain 15518 -132 GARD 15518 2 at 206.0 MVA in the COMED for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	COMED
02.02.2021 11:32	02.02.2021 16:01	A Post Contingency Local Load Relief Warning has been issued to maintain RIVERSIM 138 KV at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
02.01.2021 14:00	02.02.2021 00:02	A Post Contingency Local Load Relief Warning has been issued to maintain Newport 69kv l/o 69kv Laurel-Woodstown 0740 at 64.95 KV in the AECO (Atlantic Elec) for Transmission Contingency Control. Additional Comments: New Post Contingency Local Load Relief Warning for AE. As of 02-01-2021 14:00:06 a new Post Contingency Local Load Relief Warning to maintain line KV voltage above 65 KV in the NEWPORT 69 KV area of AE has been issued for Transmission Contingency Control. Additional Comments: Post-contingency Low Voltage on NEWPORT 69 KV for the loss of L69.Laurel-Woodstown.0740. Post Contingency Switching Solution: NA	
12.14.2020 19:55	02.02.2021 13:29	A Post Contingency Local Load Relief Warning has been issued to maintain RYAN 138 KV at 127.0 KV in the FE(ATSI) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	FE-ATSI

#### Cold Weather Alert (4 Events)

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
02.12.2021 09:06	02.15.2021 23:59	A Cold Weather Alert has been issued from 00:01 on 02.15.2021 through 23:59 on 02.15.2021 Per M-13, members are expected to perform the following: TRANSMISSION/GEN DISPATCHERS review plans to determine if any maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled. GEN DISPATCHERS: -Review &	WESTERN

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		<p>update unit parameters in Markets Gateway (MG) through the Cold Weather Alert period paying particular attention to accurate Start-up &amp; Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max. -Submit alternate fuel capability &amp; resource limitations via MG. -Review fuel supply/delivery schedules for greater than normal operation of units. -Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated in eDART &amp; will not affect the Planned Outage est. end date. -Dual fuel units, confirm equipment is functional &amp; amount of alternate fuel available. -Update PLS schedule parameters as indicated in Manual 11 Section 2.3.4. Additional Comments: Forecasted Low Temperatures range from 10 degrees to less than Zero across the Western Region of the PJM RTO.</p>	
02.12.2021 09:01	02.14.2021 23:59	<p>A Cold Weather Alert has been issued from 00:01 on 02.14.2021 through 23:59 on 02.14.2021 Per M-13, members are expected to perform the following: TRANSMISSION/GEN DISPATCHERS review plans to determine if any maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled. GEN DISPATCHERS: -Review &amp; update unit parameters in Markets Gateway (MG) through the Cold Weather Alert period paying particular attention to accurate Start-up &amp; Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max. -Submit alternate fuel capability &amp; resource limitations via MG. -Review fuel supply/delivery schedules for greater than normal operation of units. -Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated in eDART &amp; will not affect the Planned Outage est. end date. -Dual fuel units, confirm equipment is functional &amp; amount of alternate fuel available. -Update PLS schedule parameters as indicated in Manual 11 Section 2.3.4. Additional Comments: Forecasted Low Temperatures for the COMED Region are below Zero.</p>	COMED
02.08.2021 09:51	02.10.2021 23:59	<p>A Cold Weather Alert has been issued from 00:01 on 02.09.2021 through 23:59 on 02.10.2021 Per M-13, members are expected to perform the following: TRANSMISSION/GEN DISPATCHERS review plans to determine if any maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled. GEN DISPATCHERS: -Review &amp; update unit parameters in Markets Gateway (MG) through</p>	COMED

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		the Cold Weather Alert period paying particular attention to accurate Start-up & Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max. -Submit alternate fuel capability & resource limitations via MG. -Review fuel supply/delivery schedules for greater than normal operation of units. -Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated in eDART & will not affect the Planned Outage est. end date. -Dual fuel units, confirm equipment is functional & amount of alternate fuel available. -Update PLS schedule parameters as indicated in Manual 11 Section 2.3.4.	
02.06.2021 10:59	02.08.2021 23:59	A Cold Weather Alert has been issued from 06:00 on 02.07.2021 through 23:59 on 02.08.2021 Per M-13, members are expected to perform the following: TRANSMISSION/GEN DISPATCHERS review plans to determine if any maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled. GEN DISPATCHERS: -Review & update unit parameters in Markets Gateway (MG) through the Cold Weather Alert period paying particular attention to accurate Start-up & Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max. -Submit alternate fuel capability & resource limitations via MG. -Review fuel supply/delivery schedules for greater than normal operation of units. -Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated in eDART & will not affect the Planned Outage est. end date. -Dual fuel units, confirm equipment is functional & amount of alternate fuel available. -Update PLS schedule parameters as indicated in Manual 11 Section 2.3.4.	AEP AMPT COMED CPP DAY DEOK DUQ FE-AP FE-ATSI ITCI OVEC

**Non-Market PCLLRW (4 Events)**

<b>Effective Start Time</b>	<b>Effective End Time</b>	<b>Message</b>	<b>Region</b>
02.16.2021 22:04	02.18.2021 21:40	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain SHELBYCO-SHELBYTP TIE at 122.0 MVA in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	EKPC
02.16.2021 09:18	02.16.2021 18:11	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain FRGSNSOU-SMRST_EK TIE at 144.0 MVA in the EKPC for Transmission Contingency	EKPC

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		Control. Additional Comments: Load -No Generation or Switching available	
02.15.2021 23:21	02.16.2021 09:11	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain N_SPRFLD-SPRINGFI at 61.0 MVA in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	EKPC
02.15.2021 22:01	02.16.2021 09:10	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain FRGSNSOU-SMRST_EK TIE at 144.0 MVA in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	EKPC

**High System Voltage Actions (0 Event(s))**

**Synchronous Reserve (0 Event(s))**

**Shared Reserve (0 Event(s))**

**Hot Weather Alert (0 Event(s))**

**Manual Load Dump Warning (0 Event(s))**

**Manual Load Dump Event (0 Event(s))**

**HLV Schedule Warning (0 Event(s))**

**HLV Schedule Action (0 Event(s))**

**Primary Reserve Warning (0 Event(s))**

**Voltage Reduction Warning (0 Event(s))**

**Voltage Reduction (0 Event(s))**

**Emergency Energy Request (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))**