

System Operations Subcommittee

PJM Operations Summary

August 2017 Operations – Final

There were 15 PCLLRWs and 1 High System Voltage events in August

There were no DCS reportable events in August

CPS1: 144.48%

BAAL: 99.85%¹

CPS2: 88.08%

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.

Spinning (0 Events)

High System Voltage Action (1 Event)

08.27.2017 04:21	08.27.2017 10:00	A High System Voltage 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. 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. Target: Distribution Companies/Transmission Owners/Generation
---------------------	---------------------	--

Manual Load Dump Warning (0 Events)

HLV Schedule Warning (0 Events)

HLV Schedule Action (0 Events)

Hot/Cold Weather Alert (1 Event)

08.20.2017 12:40	08.22.2017 22:00	A Hot Weather Alert has been issued from 07:00 on 08.22.2017 through 22:00 on 08.22.2017 Per M-13, members are expected to perform the following actions: 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. GENERATION DISPATCHERS: -- Review & update unit parameters in Markets Gateway through the Hot Weather Alert period paying particular attention to accurate Start-up & Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max information. -- Submit alternate fuel capability & alternate fuel restrictions via Markets Gateway. -- Review fuel supply/delivery schedules in anticipation of 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 via eDART & will not affect the Planned Outage est. end date. -- For dual fuel
---------------------	---------------------	---

System Operations Subcommittee

PJM Operations Summary

August 2017 Operations – Final

		units, confirm the equipment is functional & amount of alternate fuel available. Additional Comments: Forecast high temperature and THI: Philadelphia 91/82 and Richmond 93/83
--	--	--

Primary Reserve Warning (0 Events)

Voltage Reduction Warning (0 Events)

Voltage Reduction (0 Events)

Emergency Energy Request (0 Events)

Max Emergency Gen Alert (0 Events)

Max Emergency Generation (0 Events)

Shared Reserve (3 Events)

08.24.2017 08:41	08.24.2017 09:10	-125 MW with NYISO - Bruce 7 - Regulation
08.05.2017 22:37	08.05.2017 23:00	-150 MW with NYISO - The loss of 9mile unit approx 1000MW - Regulation
08.04.2017 11:13	08.04.2017 11:35	-88 MW with NYISO - LA CROIX loaded at 700 MW tripped - Regulation

Min Gen Alert (4 Events)

08.19.2017 22:06	08.20.2017 08:00	A Minimum Generation Alert has been issued for the midnight of 08.20.2017 Expected generation level is within -1835 MW of normal minimum energy limits. Additional Comments: eDART report #34005
08.06.2017 22:28	08.07.2017 04:17	A Minimum Generation Alert has been issued for the Midnight period of 08.07.2017 Expected generation level is within -2015 MW of normal minimum energy limits. Additional Comments: eDART Report # 33992
08.05.2017 19:20	08.06.2017 07:20	A Minimum Generation Alert has been issued for the Midnight period of 08.06.2017 Expected generation level is within -1450 MW of normal minimum energy limits. Additional Comments: eDART report #33991
08.04.2017 19:40	08.05.2017 06:15	A Minimum Generation Alert has been issued for the Midnight period of 08.05.2017 Expected generation level is within -440 MW of normal minimum energy limits. Additional Comments: eDART report # 33990

Emergency Procedure (0 Events)

PCLLRW (15 Events)

08.30.2017 12:00	08.30.2017 13:11	A Post Contingency Local Load Relief Warning has been issued to maintain HAYNIE 115 KV at 105.8 KV in the PN for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
---------------------	---------------------	--

System Operations Subcommittee

PJM Operations Summary

August 2017 Operations – Final

08.24.2017 13:19	08.24.2017 16:03	A Post Contingency Local Load Relief Warning has been issued to maintain FRUITLAN 69 KV at 65 KV in the DPL (Delmarva) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
08.21.2017 18:50	08.21.2017 19:42	A Post Contingency Local Load Relief Warning has been issued to maintain MONOCACY-WALKERSV RCM3 at 135 MVA in the APS for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
08.21.2017 16:26	08.21.2017 19:43	A Post Contingency Local Load Relief Warning has been issued to maintain BRADYLAK 138 KV at 127 KV in the ATSI for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
08.21.2017 13:32	08.21.2017 14:13	A Post Contingency Local Load Relief Warning has been issued to maintain BRADYLAK 138 KV at 127 KV in the ATSI for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
08.21.2017 11:51	08.21.2017 21:29	A Post Contingency Local Load Relief Warning has been issued to maintain AUBURNC5 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
08.18.2017 19:08	08.19.2017 01:21	A Post Contingency Local Load Relief Warning has been issued to maintain BELFAST 115 KV at 105.8 KV in the FE (ME) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
08.18.2017 14:18	08.18.2017 18:11	A Post Contingency Local Load Relief Warning has been issued to maintain MIDDLEJCT 115 5 TX RE REACT at 104 MVA in the FE (ME) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
08.17.2017 18:27	08.17.2017 22:08	A Post Contingency Local Load Relief Warning has been issued to maintain BELFAST 115 KV at 105.8 KV in the FE (ME) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
08.17.2017 15:06	08.17.2017 17:40	A Post Contingency Local Load Relief Warning has been issued to maintain PINEHILL-TERRACE 0756-1 at 91 MVA in the AE (Atlantic Elec) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
08.17.2017 11:01	08.17.2017 19:08	A Post Contingency Local Load Relief Warning has been issued to maintain DELAWAIM-WESDEL at 172 MVA in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - At Delaware IM open "V" CB
08.16.2017 10:54	08.16.2017 20:25	A Post Contingency Local Load Relief Warning has been issued to maintain AUBURNC5 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
08.16.2017	08.16.2017	A Post Contingency Local Load Relief Warning has been issued to

System Operations Subcommittee

PJM Operations Summary

August 2017 Operations – Final

10:48	10:58	maintain AUBURN5 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
08.16.2017 10:41	08.16.2017 10:58	A Post Contingency Local Load Relief Warning has been issued to maintain AUBURN5 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
08.15.2017 18:51	08.15.2017 19:20	A Post Contingency Local Load Relief Warning has been issued to maintain MARDELA-VIENNA 6708-1 at 71 MVA in the DPL (Delmarva) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available

Non-PCLLRW (15 Events)

08.22.2017 13:46	08.22.2017 20:21	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain W_BARDST 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
08.21.2017 11:54	08.21.2017 12:10	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain MONOCACY 138 KV at 127 KV in the APS for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
08.20.2017 14:00	08.21.2017 20:47	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain W_BARDST 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
08.19.2017 16:34	08.19.2017 18:53	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain W_BARDST 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
08.17.2017 13:59	08.17.2017 20:52	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain W_BARDST 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
08.17.2017 12:30	08.17.2017 19:10	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain WMILTON-09GRNVIL at 165 MVA in the DAYTON for Transmission Contingency Control. Additional Comments: BES 2 Facility
08.17.2017 10:58	08.17.2017 19:08	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain RIDGEWAY 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
08.17.2017 09:51	08.17.2017 23:18	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain CHARTERS 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: BES 2

System Operations Subcommittee

PJM Operations Summary

August 2017 Operations – Final

		Facility
08.16.2017 12:28	08.16.2017 22:22	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain WMILTON-09GRNVIL at 165 MVA in the DAYTON for Transmission Contingency Control. Additional Comments: Load - No Generation or Switching available
08.16.2017 10:44	08.16.2017 23:28	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain CHARTERS 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
08.15.2017 15:00	08.15.2017 20:33	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain WMILTON-09GRNVIL at 165 MVA in the DAYTON for Transmission Contingency Control. Additional Comments: BES 2 Facility
08.15.2017 11:31	08.15.2017 19:22	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain CHARTERS 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
08.15.2017 11:28	08.15.2017 17:10	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain KEISTERS 138 KV at 127 KV in the APS for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
08.11.2017 13:47	08.11.2017 22:06	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain CHARTERS 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
08.10.2017 18:20	08.10.2017 20:01	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain CHARTERS 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: BES 2 Facility