

System Operations Subcommittee
PJM Operations Summary
August 2015 Operations

There were 10 PCLLRWs and 1 High System Voltage event in August

CPS1: 151.7%, BAAL: 99.7%, PJM (NERC 100%)¹, CPS2: (86.0%), DCS: 100%

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.

²PJM is participating in the BAAL field trial which substitutes for CPS2 compliance.

Manual Load Dump Warning (0 Events)

HLV Schedule Warning (0 Events)

HLV Schedule Action (0 Events)

Hot Weather Alert (0 Event)

Primary Reserve Warning (0 Events)

Voltage Reduction Warning (0 Events)

Voltage Reduction (0 Events)

Emergency Energy Request (0 Event)

Emergency Procedure (3 Events)

8/15/2015 9:03	8/15/2015 15:02	Emergency Procedure	- Issued Geomagnetic Disturbance Warning for PJM-RTO-RTO As of 08:07 on 08.15.2015 hours, a GMD warning of K-7 or greater is in effect beginning at 08:07 on 08.15.2015 and will continue for the next 10 hours. PJM will issue any GMD events or extended warnings posted on the RCIS by MISO St. Paul via the PJM All-Call.
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8/21/2015 15:48	8/24/2015 6:15	Emergency Procedure	- Issued Min Gen Advisory for PJM-RTO-RTO PJM is issuing a Minimum Generation Advisory for the valley periods 08.22.2015 through 08.23.2015 . This advisory is being issued to provide advanced warning that due to mild weather and light loads, PJM may be entering into Min Gen Alerts and possibly Min Gen Actions during these periods. No action is required from the members at this time. This is an informational notice only. As we approach these valley periods, PJM will implement Min Gen Alerts/Actions on an as needed basis.
8/27/2015 20:41	8/28/2015 4:22	Emergency Procedure	- Issued Geomagnetic Disturbance Warning for PJM-RTO-RTO As of 20:41 on 08.27.2015 hours, a GMD warning of K-7 or greater is in effect beginning at 20:08 on 08.27.2015 and will continue until 03:00 on 08.28.2015 . PJM will issue any GMD events or extended warnings posted on the RCIS by MISO St. Paul via the PJM All-Call.

Max Emergency Gen Alert (0 Events)

Max Emergency Generation (0 Events)

High System Voltage (1 Event)

8/23/2015 1:37	8/23/2015 9:11	Emergency Procedure	- Issued High System Voltage for PJM-RTO-RTO As of 01:37 on 08.23.2015 hours, 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
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Spinning (2 Events)

8/19/2015 12:38	8/19/2015 12:47	Spinning	Spinning in PJM for Low ACE Low ACE
8/5/2015 15:40	8/5/2015 15:47	Spinning	Spinning in PJM for Unit Trip Salem 2 loaded at 1198MW

Shared Reserves (2 Events)

8/22/2015 16:31	8/22/2015 16:42	Shared Reserve	-96 MW with NYISO - Pilgrim - Regulation
8/5/2015 15:42	8/5/2015 16:00	Shared Reserve	600 MW with NYISO - Salem 2 - Spinning & Regulation

Min Gen Alert (10 Events)

8/1/2015 20:30	8/2/2015 8:54	Min Gen Alert	- As of 20:30 on 08.01.2015 hours, a Minimum Generation Alert has been issued for the Midnight of 08.02.2015 Expected generation level is within 1205 MW of normal minimum energy limits.
8/13/2015 20:42	8/14/2015 5:25	Min Gen Alert	- As of 20:42 on 08.13.2015 hours, a Minimum Generation Alert has been issued for the Midnight of 08.14.2015 Expected generation level is within -252 MW of normal minimum energy limits.

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8/14/2015 20:16	8/15/2015 8:05	Min Gen Alert	- As of 20:15 on 08.14.2015 hours, a Minimum Generation Alert has been issued for the Midnight of 08.15.2015 Expected generation level is within -1215 MW of normal minimum energy limits.
8/15/2015 20:21	8/16/2015 8:05	Min Gen Alert	- As of 20:21 on 08.15.2015 hours, a Minimum Generation Alert has been issued for the Midnight of 08.16.2015 Expected generation level is within -932 MW of normal minimum energy limits.
8/21/2015 20:49	8/22/2015 8:15	Min Gen Alert	- As of 20:50 on 08.21.2015 hours, a Minimum Generation Alert has been issued for the Midnight of 08.22.2015 Expected generation level is within 2482 MW of normal minimum energy limits.
8/22/2015 19:34	8/23/2015 8:30	Min Gen Alert	- As of 19:35 on 08.22.2015 hours, a Minimum Generation Alert has been issued for the Midnight of 08.23.2015 Expected generation level is within 59 MW of normal minimum energy limits.
8/24/2015 20:15	8/25/2015 5:13	Min Gen Alert	- As of 20:15 on 08.24.2015 hours, a Minimum Generation Alert has been issued for the Midnight of 08.25.2015 Expected generation level is within -46 MW of normal minimum energy limits.
8/27/2015 21:03	8/28/2015 5:15	Min Gen Alert	- As of 21:03 on 08.27.2015 hours, a Minimum Generation Alert has been issued for the Midnight of 08.28.2015 Expected generation level is within -847 MW of normal minimum energy limits.
8/28/2015 20:52	8/29/2015 7:21	Min Gen Alert	- As of 20:52 on 08.28.2015 hours, a Minimum Generation Alert has been issued for the Midnight of 08.29.2015 Expected generation level is within -139 MW of normal minimum energy limits.

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8/29/2015 21:55	8/30/2015 7:30	Min Gen Alert	- As of 22:16 on 08.29.2015 hours, a Minimum Generation Alert has been issued for the Midnight of 08.30.2015 Expected generation level is within -2333 MW of normal minimum energy limits.
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Min Gen Declaration (0 Events)

Min Gen Event (0 Events)

Local Min Gen Event (0 Events)

PCLLRW (10 Events)

8/4/2015 13:13	8/4/2015 21:35	Post Contingency Local Load Relief Warning	- As of 13:06 on 08.04.2015 a PCLLRW to maintain PIDGEON 138 KV at 126.96 KV in the ATSI area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - 69kv cap available @ Pidgeon, and 138kv cap @ Boardman
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8/5/2015 12:08	8/5/2015 20:29	Post Contingency Local Load Relief Warning	- As of 12:05 on 08.05.2015 a PCLLRW to maintain PIDGEON 138 KV at 126.96 KV in the ATSI area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - 69kv cap available @ Pidgeon
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8/10/2015 11:48	8/10/2015 13:16	Post Contingency Local Load Relief Warning	- As of 11:45 on 08.10.2015 a PCLLRW to maintain BLEVNS_T 69 KV at 61.5 KV in the EKPC area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - Capacitor @ Blevins will be placed I/S
8/14/2015 18:48	8/14/2015 19:33	Post Contingency Local Load Relief Warning	- As of 18:44 on 08.14.2015 a PCLLRW to maintain BOSSERMN-LAPORTE BOS-LAP at 156 MVA in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Generation - slow response - Open Bosserman-Laporte
8/15/2015 15:43	8/15/2015 15:48	Post Contingency Local Load Relief Warning	- As of 15:41 on 08.15.2015 a PCLLRW to maintain ENGLISHT 230 KV at 212 KV in the FE (JC) area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
8/18/2015 11:51	8/18/2015 23:03	Post Contingency Local Load Relief Warning	- As of 11:46 on 08.18.2015 a PCLLRW to maintain HUNTSMAN-SUFFOLD 2110A at 984 MVA in the Dominion area has been issued for Transmission Contingency Control. Additional Comments: Refer to OM 52 - NA
8/18/2015 16:09	8/18/2015 17:38	Post Contingency Local Load Relief Warning	- As of 16:07 on 08.18.2015 a PCLLRW to maintain BIGBONE 69 KV at 61.5 KV in the EKPC area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA

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8/19/2015 12:27	8/20/2015 0:05	Post Contingency Local Load Relief Warning	- As of 12:24 on 08.19.2015 a PCLLRW to maintain HUNTSMAN-SUFFOLD 2110A at 984 MVA in the Dominion area has been issued for Transmission Contingency Control. Additional Comments: Refer to OM 52 - NA
8/19/2015 14:19	8/19/2015 17:14	Post Contingency Local Load Relief Warning	- As of 14:18 on 08.19.2015 a PCLLRW to maintain WBELLAI2 . 1 XFORMER at 551 MVA in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Generation - slow response - NA
8/31/2015 12:42	8/31/2015 20:26	Post Contingency Local Load Relief Warning	- As of 12:38 on 08.31.2015 a PCLLRW to maintain GALLATIN 138 KV at 127 KV in the EKPC area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA

Non-PCLLRW (18 Events)

8/3/2015 21:08	8/3/2015 22:34	Non-Market Post Contingency Local Load Relief Warn	- As of 21:04 on 08.03.2015 a Non-Market PCLLRW to maintain MURPHYSV 69 KV at 61.5 KV in the EKPC area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
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8/3/2015 15:33	8/3/2015 19:18	Non-Market Post Contingency Local Load Relief Warn	- As of 15:30 on 08.03.2015 a Non-Market PCLLRW to maintain ADAMSAEP 138 KV at 126.96 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: BES 2 Facility - Post Contingency Switching available for 69kV AA cap at Seaman.
8/4/2015 14:48	8/4/2015 21:30	Non-Market Post Contingency Local Load Relief Warn	- As of 14:43 on 08.04.2015 a Non-Market PCLLRW to maintain ADAMSAEP 138 KV at 126.96 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: BES 2 Facility - Post Contingency Switching of 69kV Cap AA at Seaman available.
8/9/2015 14:18	8/9/2015 20:23	Non-Market Post Contingency Local Load Relief Warn	- As of 14:16 on 08.09.2015 a Non-Market PCLLRW to maintain ADAMSAEP 138 KV at 126.96 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
8/5/2015 14:55	8/5/2015 20:27	Non-Market Post Contingency Local Load Relief Warn	- As of 14:52 on 08.05.2015 a Non-Market PCLLRW to maintain ADAMSAEP 138 KV at 126.96 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: BES 2 Facility - Post contingency switching available. 69kV cap AA at Seaman substation.

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8/5/2015 14:20	8/5/2015 14:54	Non-Market Post Contingency Local Load Relief Warn	- As of 14:13 on 08.05.2015 a Non-Market PCLLRW to maintain ADAMSAEP 138 KV at 126.96 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: BES 2 Facility - Post Contingency switching available. 69kV cap AA at Seaman substation.
8/14/2015 13:22	8/14/2015 20:54	Non-Market Post Contingency Local Load Relief Warn	- As of 13:19 on 08.14.2015 a Non-Market PCLLRW to maintain ADAMSAEP 138 KV at 127 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - Cap at Seaman available.
8/14/2015 12:53	8/14/2015 19:33	Non-Market Post Contingency Local Load Relief Warn	- As of 12:49 on 08.14.2015 a Non-Market PCLLRW to maintain HUFFMAN 138 KV at 127 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - Caps available post-contingency
8/13/2015 14:28	8/13/2015 19:59	Non-Market Post Contingency Local Load Relief Warn	- As of 14:26 on 08.13.2015 a Non-Market PCLLRW to maintain ADAMSAEP 138 KV at 127 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
8/13/2015 14:27	8/13/2015 14:27	Non-Market Post Contingency Local Load Relief Warn	- As of 14:24 on 08.13.2015 a Non-Market PCLLRW to maintain ADAMSAEP 138 KV at 126.96 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA

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8/11/2015 8:19	8/11/2015 16:26	Non-Market Post Contingency Local Load Relief Warn	- As of 08:18 on 08.11.2015 a Non-Market PCLLRW to maintain HUFFMAN 138 KV at 126.96 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
8/10/2015 17:07	8/10/2015 18:13	Non-Market Post Contingency Local Load Relief Warn	- As of 17:01 on 08.10.2015 a Non-Market PCLLRW to maintain ADAMSAEP 138 KV at 126.96 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
8/15/2015 14:54	8/15/2015 23:04	Non-Market Post Contingency Local Load Relief Warn	- As of 14:51 on 08.15.2015 a Non-Market PCLLRW to maintain ADAMSAEP 138 KV at 126.96 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: BES 2 Facility - Install 69KV cap @ Seaman sub
8/17/2015 14:05	8/17/2015 20:42	Non-Market Post Contingency Local Load Relief Warn	- As of 14:03 on 08.17.2015 a Non-Market PCLLRW to maintain BUCKHORN-TAZEWELL at 202 MVA in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Generation redispatch available - NA
8/16/2015 15:02	8/16/2015 23:57	Non-Market Post Contingency Local Load Relief Warn	- As of 14:58 on 08.16.2015 a Non-Market PCLLRW to maintain ADAMSAEP 138 KV at 126.96 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - 69kv capacitor at Seaman station

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8/30/2015 14:06	8/31/2015 0:25	Non-Market Post Contingency Local Load Relief Warn	- As of 14:02 on 08.30.2015 a Non-Market PCLLRW to maintain ADAMSAEP 138 KV at 126.96 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - Post contingency 69kV cap at Seaman available.
8/28/2015 13:02	8/28/2015 13:15	Non-Market Post Contingency Local Load Relief Warn	- As of 12:59 on 08.28.2015 a Non-Market PCLLRW to maintain MURPHYSV 69 KV at 61.5 KV in the EKPC area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
8/31/2015 17:02	8/31/2015 22:37	Non-Market Post Contingency Local Load Relief Warn	- As of 16:59 on 08.31.2015 a Non-Market PCLLRW to maintain ADAMSAEP 138 KV at 126.96 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - Post contingency place 69 kV Seaman cap in service.