

**System Operations Subcommittee**  
**PJM Operations Summary**  
**June 2015 Operations (Partial Month)**

There were 33 PCLLRWs and 6 High System Voltage events in June

CPS1: TBD, BAAL: TBD PJM (NERC TBD) <sup>1</sup>, CPS2: TBD <sup>2</sup>, DCS: TBD

<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.

<sup>2</sup>PJM 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/Cold Weather Alert** (4 Events)

06/15/15 09:47	06/16/15 21:57	Hot Weather Alert	- SOUTHERN-Region As of 09:30 on 06.15.2015 hours, a Hot Weather Alert has been issued for 06.16.2015
06/12/15 07:51	06/13/15 21:31	Hot Weather Alert	- SOUTHERN & MIDATL-Region As of 07:51 on 06.12.2015 hours, a Hot Weather Alert has been issued for 06.13.2015 Additional Comments: Forecasted Temp: 92 Degrees, THI Degrees 82 Degrees
06/11/15 06:35	06/12/15 21:39	Hot Weather Alert	- MIDATL-Region, SOUTHERN-Region As of 06:35 on 06.11.2015 hours, a Hot Weather Alert has been issued for 06.12.2015 Additional Comments: Forecasted Temp: 94 Degrees. Forecasted THI 83 Degrees
06/09/15 10:04	06/11/15 21:14	Hot Weather Alert	- MIDATL-Region, SOUTHERN-Region As of 10:04 on 06.09.2015 hours, a Hot Weather Alert has been issued for 06.11.2015 Additional Comments: Forecasted Temp: 93 Degrees, Forecasted THI 82 Degrees

**Primary Reserve Warning** (0 Events)

**Voltage Reduction Warning** (0 Events)

**Voltage Reduction** (0 Events)

**Emergency Energy Request** (0 Events)

**Emergency Procedure** (0 Events)

**Max Emergency Gen Alert** (0 Events)

**Max Emergency Generation** (0 Events)

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**High System Voltage** (6 Events)

06/07/15 00:15	06/07/15 10:52	Emergency Procedure	- Issued High System Voltage for PJM-RTO-RTO As of 00:15 on 06.07.2015 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
06/05/15 23:33	06/06/15 09:31	Emergency Procedure	- Issued High System Voltage for PJM-RTO-RTO As of 23:33 on 06.05.2015 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
06/05/15 00:59	06/05/15 06:40	Emergency Procedure	- Issued High System Voltage for MIDATL-Region As of 00:59 on 06.05.2015 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
06/03/15 23:06	06/04/15 06:31	Emergency Procedure	- Issued High System Voltage for MIDATL-Region As of 23:06 on 06.03.2015 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
06/02/15 23:55	06/03/15 06:00	Emergency Procedure	- Issued High System Voltage for MIDATL-Region As of 23:55 on 06.02.2015 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

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06/02/15 00:15	06/02/15 06:26	Emergency Procedure	existing "D" curve. Target: Distribution Companies/Transmission Owners/Generation - Issued High System Voltage for MIDATL-Region As of 00:15 on 06.02.2015 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** (0 Events)

**Shared Reserves** (3 Events)

06/15/15 19:21	06/15/15 19:45	Shared Reserve	158 MW with NYISO - NYISO Indian Pt. 3 1045 Mws - Regulation
06/10/15 14:42	06/10/15 14:52	Shared Reserve	-67 MW with NYISO - Chateauguay DC Tie - Regulation
06/08/15 06:54	06/08/15 07:20	Shared Reserve	-125 MW with NYISO - Bruce tripped loaded at 850MW - Regulation

**Min Gen Alert** (2 Events)

06/06/15 20:45	06/07/15 09:46	Min Gen Alert	- As of 20:45 on 06.06.2015 hours, a Minimum Generation Alert has been issued for the Midnight of 06.07.2015 Expected generation level is within -2222 MW of normal minimum energy limits.
06/02/15 20:36	06/03/15 05:59	Min Gen Alert	- As of 20:36 on 06.02.2015 hours, a Minimum Generation Alert has been issued for the Midnight of 06.03.2015 Expected generation level is within -482 MW of normal minimum energy limits.

**Min Gen Declaration** (0 Events)

**Min Gen Event** (0 Events)

**Local Min Gen Event** (0 Events)

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**PCLLRW** (33 Events)

6/19/2015 8:12	6/19/2015 8:46	Post Contingency Local Load Relief Warning	- As of 08:08 on 06.19.2015 a PCLLRW to maintain LAKVEW-GREENFOE at 334 MVA in the ATSI area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - Post contingency switching exist to open B-242 138kv BKR @ Greenfield
6/18/2015 16:36	6/18/2015 19:56	Post Contingency Local Load Relief Warning	- As of 16:32 on 06.18.2015 a PCLLRW to maintain GOUDEY-LAURLAKE115 KVTIE at 143 MVA in the PN area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - NYISO and PJM and FE East agree to open 115kv Goudey Laurel Lake post Contingency
6/18/2015 16:31	6/18/2015 16:33	Post Contingency Local Load Relief Warning	- As of 16:28 on 06.18.2015 a PCLLRW to maintain GOUDEY-LAURLAKE115 KVTIE at 143 MVA in the PN area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - NYISO and PJM and FE East agree to open 115kv Goudey Laurel Lake post Contingency
6/18/2015 16:25	6/18/2015 16:29	Post Contingency Local Load Relief Warning	- As of 16:19 on 06.18.2015 a PCLLRW to maintain GOUDEY-LAURLAKE115 KVTIE at 143 MVA in the PN area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - Post Contingency Switching Solution: NYISO and PJM and FE East agree to open 115kv Goudey Laurel Lake post Contingency
6/18/2015 16:16	6/18/2015 16:20	Post Contingency Local Load Relief Warning	- As of 16:12 on 06.18.2015 a PCLLRW to maintain GOUDEY-LAURLAKE115 KVTIE at 143 MVA in the PN area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - NYISO and PJM and FE East agree to open 115kv Goudey Laurel Lake post Contingency

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6/18/2015 14:27	6/18/2015 16:40	Post Contingency Local Load Relief Warning	- As of 14:25 on 06.18.2015 a PCLLRW to maintain GREENWCH-ELIZRIV 2018A at 485 MVA in the Dominion area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/18/2015 11:13	6/18/2015 23:20	Post Contingency Local Load Relief Warning	- As of 11:09 on 06.18.2015 a PCLLRW to maintain METZTAP 163-4T XFORMER at 312 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/18/2015 10:41	6/18/2015 23:22	Post Contingency Local Load Relief Warning	- As of 10:39 on 06.18.2015 a PCLLRW to maintain METZTAP 163-1T XFORMER at 313 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/17/2015 8:37	6/17/2015 23:20	Post Contingency Local Load Relief Warning	- As of 08:35 on 06.17.2015 a PCLLRW to maintain METZTAP 163-4T XFORMER at 286 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/17/2015 8:36	6/17/2015 23:20	Post Contingency Local Load Relief Warning	- As of 08:34 on 06.17.2015 a PCLLRW to maintain METZTAP 163-1T XFORMER at 286 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/16/2015 14:56	6/16/2015 19:02	Post Contingency Local Load Relief Warning	- As of 14:54 on 06.16.2015 a PCLLRW to maintain BELLSMIL 121-11T XFORMER at 286 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/16/2015 14:42	6/16/2015 19:02	Post Contingency Local Load Relief Warning	- As of 14:39 on 06.16.2015 a PCLLRW to maintain BELLSMIL 121-13T XFORMER at 286 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA

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6/15/2015 15:49	6/15/2015 19:37	Post Contingency Local Load Relief Warning	- As of 15:41 on 06.15.2015 a PCLLRW to maintain CONASTON-NORTHWES 2322 at 852 MVA in the BGE area has been issued for Transmission Contingency Control. Additional Comments: Generation - slow response - NA
6/15/2015 12:16	6/15/2015 22:55	Post Contingency Local Load Relief Warning	- As of 12:13 on 06.15.2015 a PCLLRW to maintain CNTRLHAR 138 KV at 127 KV in the EKPC area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - Place 69kV cap into service at Ft Knox Post-Contingency.
6/14/2015 16:09	6/14/2015 17:16	Post Contingency Local Load Relief Warning	- As of 16:07 on 06.14.2015 a PCLLRW to maintain BELLSMIL 121-11T XFORMER at 286 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/12/2015 14:54	6/12/2015 20:40	Post Contingency Local Load Relief Warning	- As of 14:52 on 06.12.2015 a PCLLRW to maintain BELLSMIL 121-13T XFORMER at 286 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/12/2015 14:53	6/12/2015 20:40	Post Contingency Local Load Relief Warning	- As of 14:52 on 06.12.2015 a PCLLRW to maintain BELLSMIL 121-12T XFORMER at 286 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/12/2015 14:53	6/12/2015 20:40	Post Contingency Local Load Relief Warning	- As of 14:51 on 06.12.2015 a PCLLRW to maintain BELLSMIL 121-11T XFORMER at 286 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/12/2015 13:32	6/12/2015 14:51	Post Contingency Local Load Relief Warning	- As of 13:27 on 06.12.2015 a PCLLRW to maintain BELLSMIL 121-13T XFORMER at 286 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA

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6/12/2015 13:18	6/12/2015 14:51	Post Contingency Local Load Relief Warning	- As of 13:17 on 06.12.2015 a PCLLRW to maintain BELLSMIL 121-12T XFORMER at 286 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/12/2015 13:02	6/12/2015 14:51	Post Contingency Local Load Relief Warning	- As of 13:00 on 06.12.2015 a PCLLRW to maintain BELLSMIL 121-11T XFORMER at 286 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/11/2015 13:07	6/11/2015 21:41	Post Contingency Local Load Relief Warning	- As of 13:04 on 06.11.2015 a PCLLRW to maintain CAMDEN2 -HENRIETA CAM-HEN1 at 128 MVA in the ATSI area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/11/2015 11:35	6/12/2015 10:30	Post Contingency Local Load Relief Warning	- As of 11:27 on 06.11.2015 a PCLLRW to maintain LESIDE 138 KV at 126.96 KV in the ATSI area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/11/2015 11:16	6/11/2015 11:17	Post Contingency Local Load Relief Warning	- As of 11:13 on 06.11.2015 a Post Contingency Local Load Relief Warning to maintain MIAMIFOR-CLIFTYCR TIE at 119 MVA in the DEOK area has been issued for Transmission Contingency Control. Additional Comments: Generation - slow response
6/11/2015 11:14	6/12/2015 5:12	Post Contingency Local Load Relief Warning	- As of 11:08 on 06.11.2015 a Post Contingency Local Load Relief Warning to maintain MIAMIFOR-CLIFTYCR TIE at 119 MVA in the DEOK area has been issued for Transmission Contingency Control. Additional Comments: Generation - slow response
6/10/2015 11:11	6/10/2015 20:48	Post Contingency Local Load Relief Warning	- As of 11:05 on 06.10.2015 a PCLLRW to maintain CNTRLHAR 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

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6/8/2015 13:22	6/8/2015 19:05	Post Contingency Local Load Relief Warning	- As of 13:19 on 06.08.2015 a PCLLRW to maintain BARRENCO 161 KV at 148 KV in the EKPC area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - place capacitors in service at Barren and Summer Shade
6/8/2015 13:00	6/8/2015 21:33	Post Contingency Local Load Relief Warning	- As of 12:58 on 06.08.2015 a PCLLRW to maintain FTSLOCUM-TAKOMA 69054 at 118 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - Post contingency PEPCO will open 69 kV K1-21B CB at Ft Slocum.
6/7/2015 16:08	6/7/2015 19:55	Post Contingency Local Load Relief Warning	- As of 16:06 on 06.07.2015 a PCLLRW to maintain JBGALLWJ 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
6/6/2015 14:13	6/6/2015 19:35	Post Contingency Local Load Relief Warning	- As of 14:09 on 06.06.2015 a PCLLRW to maintain JBGALLWJ 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
6/5/2015 13:03	6/5/2015 18:44	Post Contingency Local Load Relief Warning	- As of 12:57 on 06.05.2015 a PCLLRW to maintain GALION 138 KV at 126.96 KV in the ATSI area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - FE West has automatic caps being placed in service post contingency. Pre-contingency voltages are too high to place these caps in service at this time.
6/1/2015 10:54	6/1/2015 21:04	Post Contingency Local Load Relief Warning	- As of 10:51 on 06.01.2015 a PCLLRW to maintain MAXWELL 138 KV at 126.96 KV in the ATSI area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - Caps available post-contingency



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6/1/2015 10:21	6/1/2015 21:32	Post Contingency Local Load Relief Warning	- As of 10:18 on 06.01.2015 a PCLLRW to maintain METZTAP 163-1T XFORMER at 286 MVA in the PEPCO area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
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**Non-PCLLRW** (12 Events)

06/18/15 11:07	Not closed	Non-Market Post Contingency Local Load Relief Warn	- As of 11:03 on 06.18.2015 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
06/16/15 09:44	6/16/2015 11:34	Non-Market Post Contingency Local Load Relief Warn	- As of 09:39 on 06.16.2015 a Non-Market PCLLRW to maintain HUNTINGT-SORENSEN at 248 MVA in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
6/16/2015 9:42	6/16/2015 9:47	Non-Market Post Contingency Local Load Relief Warn	- As of 09:39 on 06.16.2015 a Non-Market Post Contingency Local Load Relief Warning to maintain HUNTINGT-SORENSEN at 248 MVA in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
6/14/2015 18:02	6/17/2015 23:38	Non-Market Post Contingency Local Load Relief Warn	- As of 18:00 on 06.14.2015 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
6/13/2015 16:08	6/17/2015 23:38	Non-Market Post Contingency Local Load Relief Warn	- As of 16:05 on 06.13.2015 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: BES 2 Facility - 69 kv cap available at Seamman but pre contingency voltage too high

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6/12/2015 14:59	6/12/2015 21:00	Non-Market Post Contingency Local Load Relief Warn	- As of 14:57 on 06.12.2015 a Non-Market PCLLRW to maintain DARDENRO-PINEROAD at 173 MVA in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - Open 'C' 138kV CB at SOUTH BEND station.
6/10/2015 22:33	6/11/2015 2:57	Non-Market Post Contingency Local Load Relief Warn	- As of 22:30 on 06.10.2015 a Non-Market PCLLRW to maintain SEYMOURJ 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
6/10/2015 12:22	6/10/2015 17:01	Non-Market Post Contingency Local Load Relief Warn	- As of 12:10 on 06.10.2015 a Non-Market Post Contingency Local Load Relief Warning to maintain AMOS-CURRY at 167 MVA in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
6/9/2015 10:49	6/12/2015 20:59	Non-Market Post Contingency Local Load Relief Warn	- As of 10:47 on 06.09.2015 a Non-Market PCLLRW to maintain WKINGSPO 138 KV at 126.96 KV in the AEP area has been issued for Transmission Contingency Control. - NA
6/8/2015 13:00	6/12/2015 20:59	Non-Market Post Contingency Local Load Relief Warn	- As of 12:58 on 06.08.2015 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
6/3/2015 12:52	6/5/2015 1:27	Non-Market Post Contingency Local Load Relief Warn	- As of 12:48 on 06.03.2015 a Non-Market PCLLRW to maintain WKINGSPO 138 KV at 126.96 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - 138 KV cap @ W. Kingsport will automatically come in to service upon the loss of Nagle 500/138KV TF