

System Operations Subcommittee
PJM Operations Summary
June 2011 (for May 2011 Operations)

PJM RTO CPS1 135.9%; BAAL 99.6% (NERC 100%); (CPS2 89.1%); DCS No Event

100% Spinning (3 Events)

5/27/2011	5/27/2011 8:51	5/27/2011 8:57	Spinning	Spinning in RFC for Unit Trip Gavin 1 tripped offline loaded at 1311MW Cause Unknown.
5/29/2011	5/29/2011 5:04	5/29/2011 5:11	Spinning	Spinning in RFC for Unit Trip Limerick 2 tripping of 827mw
5/31/2011	5/31/2011 12:36	5/31/2011 13:03	Spinning	Spinning in RFC for Low ACE Spun due to low ACE.

Shared Reserve (1 Event)

5/31/2011	5/31/2011 12:42	5/31/2011 12:57	Shared Reserve	500 MW with NYISO - Low ACE
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Max Emergency Generation (1 Event)

5/31/2011	5/31/2011 15:10	5/31/2011 19:05	Max Emergency Generation	Mid-Atlantic - Region, Southern - Region As of 15:05 hours, a Maximum Emergency Generation Action has been issued. Any off system energy sales from PJM capacity resources may be recalled as necessary. Additional Comments: Do not load.
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Hot weather alert (2 Events)

5/27/2011	5/27/2011 9:50	5/31/2011 22:04	Hot Weather Alert	PJM - RTO As of 09:50 hours, a Hot Weather Alert has been issued for 05/31/2011 Additional Comments: Hot Weather Alert issued for the RTO with the exception of the ComEd zone for Tuesday 31-May both day and evening periods. The high temp for Philadelphia, PA is 93 degrees and Richmond, VA is 91 degrees.
5/27/2011	5/27/2011 9:50	5/30/2011 21:33	Hot Weather Alert	PJM - RTO As of 09:50 hours, a Hot Weather Alert has been issued for 05/30/2011 Additional Comments: Hot Weather Alert issued for the RTO with the exception of the ComEd zone for Monday 30-May both day and evening periods. The high temp for Philadelphia, PA is 90 degrees and Richmond, VA is 90 degrees.

HLV Schedule Warning (1 Event)

5/31/2011	5/31/2011 8:42	6/1/2011 0:13	HLV Schedule Warning	PJM - RTO As of 07:46 a Heavy Load Voltage Schedule Warning has been issued. Additional Comments: PJM RTO Excluding COMED
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PCLLRW's (48 Events: 3 Gen, 9 Switch, and 34 Load)

5/2/2011	5/2/2011 11:12	5/2/2011 17:52	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 5 MW in the Topmost area of AEP has been issued for Transmission Contingency Control.
5/3/2011	5/3/2011 9:25	5/3/2011 13:09	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 5 MW in the TOPMOST/BECKMAN/VICCO/HAZARD area of AEP has been issued for Transmission Contingency Control. For Post Contingency Low Voltage loss of Hazard - Wooten 161 kV Line
5/3/2011	5/3/2011 11:50	5/3/2011 12:19	Post Contingency Local Load Relief Warning	PCLLRW of 10 MW in the Pender area of Dominion has been issued for Transmission Contingency Control. Additional Comments: Loudoun-Johnsnpd 156B I/o Clifton-Pender 2051 line. Reason: Load - no generation or switching available
5/3/2011	5/3/2011 12:38	5/3/2011 20:47	Post Contingency Local Load Relief Warning	PCLLRW of 20 MW in the TORREY area of AEP has been issued for Transmission Contingency Control. For South Canton - Torrey for I/o Canton Ce - S Canton 345 KV Line Reason: Load - no generation or switching available
5/6/2011	5/6/2011 9:45	5/6/2011 10:02	Post Contingency Local Load Relief Warning	PCLLRW of 80 MW in the Benning area of PEPCO has been issued for Transmission Contingency Control. Additional Comments: Issued for the Benning sub-system area (Benning, 12th street, Tuxedo, Bladensburg) for a multiple thermal and voltage violations on the I/o numerous system components in the afore mentioned area. Reason: Load - no generation or switching available
5/10/2011	5/10/2011 2:30	5/12/2011 12:33	Post Contingency Local Load Relief Warning	PCLLRW of 20 MW in the Brues area of AEP has been issued for Transmission Contingency Control. Additional Comments: Brues-W.Bellair I/o Kammer .100Tx. Post contingency switching solution; Close C & open B 138kv breakers @ Kammer per Op guide.
5/11/2011	5/11/2011 13:13	5/11/2011 19:49	Post Contingency Local Load Relief Warning	PCLLRW of 50 MW in the Huntingdon/Robbins area of APS has been issued for Transmission Contingency Control. Additional Comments: Contingency control of Yukon #4 Tr FLO Yukon #1&3 TR's
5/11/2011	5/11/2011 13:54	5/11/2011 18:41	Post Contingency Local Load Relief Warning	PCLLRW of 10 MW in the Airco/Arroyo area of APS has been issued for Transmission Contingency Control. Additional Comments: Wylie Ridge #3 TR FLO #1 TR
5/11/2011	5/11/2011 15:46	5/11/2011 18:40	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 20 MW in the ethels, vasco, edgewater, loyalhanna area of APS has been issued for Transmission Contingency Control. Additional Comments: SocialHall-VascoTap I/o Keystone-SBend over load dump post contingency

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5/11/2011	5/11/2011 21:50	5/11/2011 22:36	Post Contingency Local Load Relief Warning	PCLLRW of 40 MW in the huntingd. robbins, smithton area of APS has been issued for Transmission Contingency Control. Additional Comments: Yukon #4 transformer l/o 1&3 Reason: Load - no generation or switching available
5/12/2011	5/12/2011 13:30	5/12/2011 19:57	Post Contingency Local Load Relief Warning	PCLLRW of 5 MW in the Saltville area of AEP has been issued for Transmission Contingency Control. Additional Comments: PCLLRW issued @ 13:25 fro 5 MW's in Saltville area for Broadford-Saltville #2 fro L/O Broadford-Saltville #1 Post contingency switching: Open 138kv cb Reason: Post Contingency Switching available
5/14/2011	5/14/2011 15:04	5/14/2011 21:40	Post Contingency Local Load Relief Warning	PCLLRW of 20 MW in the Hopewell, Smithfield area of Dominion has been issued for Transmission Contingency Control. Additional Comments: l/o Suffolk TX7 Failed to sectionalize
5/16/2011	5/16/2011 11:41	5/16/2011 12:08	Post Contingency Local Load Relief Warning	PCLLRW of 15 MW in the Locks, Harvell area of Dominion has been issued for Transmission Contingency Control. Additional Comments: Low voltages - l/o Carson-Locks 249 line 115kv Cap available at Poe post contingent.
5/17/2011	5/17/2011 10:16	5/17/2011 17:42	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 25 MW in the Ethel Springs and Vasco area of APS has been issued for Transmission Contingency Control. Additional Comments: For Social Hall - Vasco Tap on L/O Youngwood - Yukon
5/21/2011	5/21/2011 12:19	5/21/2011 23:08	Post Contingency Local Load Relief Warning	PCLLRW of 5 MW in the Kammer area of AEP has been issued for Transmission Contingency Control. Additional Comments: PCLLRW issued @ 12:20 for Brues W. bellair for L/O Kammer T100 TX. Post Contingency switching @ Kammer Station: - Close 138kv Cb
5/21/2011	5/21/2011 16:01	5/21/2011 22:55	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 5 MW in the Haviland area of AEP has been issued for Transmission Contingency Control. Additional Comments: PCLLRW issued for 5MW's for Harper-Milanns for L/O Marysville 765/345kv transf. Post Contingency Switching: 1. @ E. Lima - Open 138Kv
5/22/2011	5/22/2011 17:12	5/23/2011 0:44	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 5 MW in the Kammer area of AEP has been issued for Transmission Contingency Control. Additional Comments: PCLLRW issued @ 1705 for Brues W. Bellaire for L/O Kammer T100 TX. Post Contingency switching @ Kammer Station: - Close 138kv cb
5/22/2011	5/22/2011 20:07	5/23/2011 1:31	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 25 MW in the Grabill, South Hicksville and City of Bryan area of AEP has been issued for Transmission Contingency Control. Additional Comments: For L/O Marysville 765/345 kv Trans.

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5/23/2011	5/23/2011 8:11	5/23/2011 9:59	Post Contingency Local Load Relief Warning	PCLLRW of 15 MW in the Cabot / Pleasants area of APS has been issued for Transmission Contingency Control. Additional Comments: Belmont 3 Xfmr I/o 1&2 Xfmrs Reason: Generation - slow response
5/23/2011	5/23/2011 10:06	5/24/2011 1:57	Post Contingency Local Load Relief Warning	PCLLRW of 20 MW in the DelawareIM area of AEP has been issued for Transmission Contingency Control. Additional Comments: PCLLRW issued @ 09:50 for 20 MW's in Delawre IM area for DelawareIm - Hogan for L/O Desoto T1 Transformer (Sectionalized). No Post Contingency switching available. Reason: Load - no generation or switching available
5/23/2011	5/23/2011 15:00	5/24/2011 1:57	Post Contingency Local Load Relief Warning	PCLLRW of 10 MW in the Brues-Wbellair area of AEP has been issued for Transmission Contingency Control. Additional Comments: PCLLRW issued for Brues-WBellair I/o Kammer T.100 transformer. Kammer Op Guide, when implemented post-contingency, should alleviate the overloaded facility. Reason: Load - no generation or switching available
5/24/2011	5/24/2011 13:12	5/25/2011 3:15	Post Contingency Local Load Relief Warning	PCLLRW of 5 MW in the Kammer area of AEP has been issued for Transmission Contingency Control. Additional Comments: PCLLRW issued @ 13:15 for Brues W. Bellaire for L/O Kammer T100 TX. Post Contingency switching @ Kammer Station: - Close 138kv cb Reason: Post Contingency Switching available
5/24/2011	5/24/2011 13:12	5/24/2011 22:37	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 11 MW in the Milcreek area of DAYTON has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Low Voltages I/o Shelby-Sidney
5/24/2011	5/24/2011 21:16	5/25/2011 6:42	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 30 Mw MW in the Haviland area of AEP has been issued for Transmission Contingency Control. Additional Comments: To alleviate loading over load dump on the Harper - Milanss circuit lo Marysville 765/345 Kv xfmr the
5/25/2011	5/25/2011 11:15	5/25/2011 20:56	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 11 MW in the Milcreek area of DAYTON has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Low Voltage at SpringCreek & Sidney I/o Shelby-Sidney 138 kV Line
5/25/2011	5/25/2011 21:14	5/25/2011 22:36	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 12 MW in the Warren area of FE (PN) has been issued for Transmission Contingency Control. Additional Comments: Post contingency low voltage in the Elm St. area for the loss of Warren-Glade 230 KV line and the Warren #4 230/138KV transformer.
5/26/2011	5/26/2011 2:40	5/26/2011 3:12	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 30 MW in the Sterling area of AEP has been issued for Transmission Contingency Control. Additional Comments: Post contingency low voltage and voltage drop violations on L/O Southwest Lima - Shawnee - Ordnance Junction 138 kV

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5/26/2011	5/26/2011 9:38	5/26/2011 23:09	Post Contingency Local Load Relief Warning	PCLLRW of 30 Mw MW in the Brues area of AEP has been issued for Transmission Contingency Control. Additional Comments: In the event that the Kammer .100 Xfmr trips, under the Kammer operating guide 138 Kv breaker Reason: Post Contingency Switching available
5/26/2011	5/26/2011 14:48	5/26/2011 17:37	Post Contingency Local Load Relief Warning	PCLLRW of 20 MW in the Norfolk area of Dominion has been issued for Transmission Contingency Control. Additional Comments: For Norfolk area of DOM Transmission. Smithfld-Surry L/O Fentress-Septa 579 line.
5/26/2011	5/26/2011 16:15	5/26/2011 17:05	Post Contingency Local Load Relief Warning	PCLLRW of 15 MW in the area of APS has been issued for Transmission Contingency Control. Additional Comments: Middlebourne-Willow Isl l/o 502 Jct-Kammer
5/26/2011	5/26/2011 18:00	5/26/2011 19:25	Post Contingency Local Load Relief Warning	PCLLRW of 5 MW in the Wolf Creek area of AEP has been issued for Transmission Contingency Control. Additional Comments: WolfCreek T2 Xfmr / T2Choke l/o Kammer-Belmont-Mountaineer Reason: Generation - slow response
5/27/2011	5/27/2011 8:55	5/27/2011 23:38	Post Contingency Local Load Relief Warning	PCLLRW of 10 MW in the Brues area of AEP has been issued for Transmission Contingency Control. Additional Comments: PCLLRW issued for post-contingency loading on Brues-WBellair. Implementation of Kammer Op Guide should alleviate any post-contingency overloads. Reason: Load - no generation or switching available
5/28/2011	5/28/2011 10:39	5/28/2011 12:03	Post Contingency Local Load Relief Warning	PCLLRW of 58 MW in the Cuthbert area of PSEG has been issued for Transmission Contingency Control. No generation or switching available Additional Comments: PCLLRW 58mw in Cuthbert region of PS for Camden Cuthbert l/o Mickelton-Thorofare
5/28/2011	5/29/2011 18:28	5/29/2011 23:42	Post Contingency Local Load Relief Warning	PCLLRW of 35 MW in the Bethlehem area of AEP has been issued for Transmission Contingency Control. Additional Comments: Brues-West Bellaire 138 kV line for the loss of the Kammer T100 345/138 kV transformer. Post Contingency options: Perform switching per the Kammer operating guide for the loss of the Kammer T100 345/138 transformer. Should the switching per the Kammer Operating Guide not be performed, shed load in the Bethlehem area of AEP. Reason: Post Contingency Switching available
5/30/2011	5/30/2011 10:30	5/31/2011 0:24	Post Contingency Local Load Relief Warning	PCLLRW of 10 MW in the Brues area of AEP has been issued for Transmission Contingency Control. Additional Comments: Brues-W Bellaire 138kv l/o Kammer 100 xfmr 345/138kv; p/c switching exists per Kammer oper. guide, if switching is unavailable load to be shed in Brues area of AEP Reason: Post Contingency Switching available

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5/30/2011	5/30/2011 15:42	5/30/2011 19:17	Post Contingency Local Load Relief Warning	PCLLRW of 15 MW in the Vineland and Butler area of AE (Atlantic Elec) has been issued for Transmission Contingency Control. Additional Comments: For Shield Alloy - Vineland on L/O Orchard Tap: Churchtown - Orchard - Cumberland. Reason: Generation tripped and a buss tripped
5/30/2011	5/30/2011 17:47	5/30/2011 22:41	Post Contingency Local Load Relief Warning	PCLLRW of 10 MW in the NAGEL / FT ROBINSON area of AEP has been issued for Transmission Contingency Control. Additional Comments: Post contingency Low Voltage for loss of NAGEL 500/138 TR#3 Reason: Load - no generation or switching available
5/31/2011	5/31/2011 10:29	6/1/2011 4:31	Post Contingency Local Load Relief Warning	PCLLRW of 40 MW in the Brues, Bethlehem area of AEP has been issued for Transmission Contingency Control. Additional Comments: Brues-W Bellaire 138kv I/o Kammer 100 xfmr 345/138kv, p/c switching available per Kammer oper. guide, if switching is unavailable load to be shed in Brues, Bethlehem areas Reason: Post Contingency Switching available
5/31/2011	5/31/2011 12:32	5/31/2011 22:17	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 10 MW in the Warren area of FE (PN) has been issued for Transmission Contingency Control. no switching or generation available Additional Comments: Post contingency low voltage for loss of Warren #4 transformer and Warren 115Kv Capacitor.
5/31/2011	5/31/2011 14:30	6/1/2011 0:42	Post Contingency Local Load Relief Warning	PCLLRW of 25 MW in the W. Belair area of AEP has been issued for Transmission Contingency Control. For Kammer 100 TR I/o Kammer - W. Belair -Tidd 345 KV Line Reason: Load - no generation or switching available
5/31/2011	5/31/2011 14:57	5/31/2011 18:58	Post Contingency Local Load Relief Warning	PCLLRW of 35 MW in the WALTZMIL, WESTRAVE, SEWICKLE area of APS has been issued for Transmission Contingency Control. Additional Comments: I/o Yukon Tran 1 & 3
5/31/2011	5/31/2011 15:37	5/31/2011 23:11	Post Contingency Local Load Relief Warning	PCLLRW of 5 MW in the RUTH area of AEP has been issued for Transmission Contingency Control. RUTH - TURNER 138 kV Line for I/o Kanawha River TR B 345/138 KV (Sectionalized) Reason: Load - no generation or switching available
5/31/2011	5/31/2011 15:45	5/31/2011 22:15	Post Contingency Local Load Relief Warning	PCLLRW of 15 MW in the 151 Woodstock area of ComEd has been issued for Transmission Contingency Control. Additional Comments: PCLLRW 15MVA 151 Woodstock - 12205 2 loss of 15616 Cherry Valley - Silver Lake.
5/31/2011	5/31/2011 16:05	5/31/2011 18:58	Post Contingency Local Load Relief Warning	PCLLRW of 30 MW in the ROCHEVIT, WAVERLY, CYTEC area of APS has been issued for Transmission Contingency Control. Additional Comments: I/o Belmont 500/138 #1 & #2 transformers - Post contingency switching at Trissler, open the mountwood CB.

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5/31/2011	5/31/2011 16:41	5/31/2011 20:13	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 5 MW in the Mill Creek area of DAYTON has been issued for Transmission Contingency Control. Additional Comments: Low voltage at Spring & Sidney 138kv I/o Shelby-Sidney
5/31/2011	5/31/2011 16:08	5/31/2011 22:15	Post Contingency Local Load Relief Warning	PCLLRW of 13 MW in the 83 GLIDDEN area of ComEd has been issued for Transmission Contingency Control. for 83 GLIDDEN 38L15627 Z1 for I/o 15616 Cherry Valley - Silver Lake 345 kV Line Reason: Load - no generation or switching available
5/31/2011	5/31/2011 16:46	5/31/2011 19:45	Non-Market Post Contingency Local Load Relief Warn	PCLLRW of 40 MW in the Hilltop area of FE (PN) has been issued for Transmission Contingency Control.
5/31/2011	5/31/2011 17:27	6/1/2011 0:43	Post Contingency Local Load Relief Warning	PCLLRW of 5mw MW in the Fort Robinson area of AEP has been issued for Transmission Contingency Control. Additional Comments: Post contingency low voltage. Fort Robinson loss of Nagel 500/138KV #3 Transformer. Reason: Load - no generation or switching available

Emergency Procedures (11 Events)

5/26/2011	5/26/2011 16:23	5/26/2011 17:39	Emergency Procedure	Issued Manual Load Dump Warning for Dominion - Control Zone As of 16:21 hours, a Manual Load Dump Warning has been issued. Additional Comments: 200 MW Manual Load Dump Warning in effect for the Norfolk subzone of the Dominion Transmission zone.
5/31/2011	5/31/2011 16:46	5/31/2011 17:05	Emergency Procedure	Issued Manual Load Dump Warning for AEP - Control Zone As of 15:35 hours, a Manual Load Dump Warning has been issued. Additional Comments: Issued for Maddox Creek - RP Mone loss of Marysville 765/345 KV transformer. 15 MVA relief.