

System Operations Subcommittee
PJM Operations Summary
October 2011 (for September 2011 Operations)

PJM RTO CPS1 133.9%; BAAL 99.5% (NERC 100%); (CPS2 88.2%); DCS 2 Events

DCS

- On 09/07/2011 @ 08:54 Cook #1 Tripped at 1026 MW
- On 09/24/2011 @ 11:46 Rockport#1 Tripped at 1301 MW

100% Spinning (3 Events)

09/27/2011	09/27/11 12:47	09/27/11 12:56	Emergency Procedure	Spinning in RFC for Low ACE Spinning for low ACE
09/27/2011	09/27/11 10:20	09/27/11 10:27	Emergency Procedure	Spinning in RFC for Low ACE Unit limits are not correct in dispatch lambda.
09/24/2011	09/24/11 11:48	09/24/11 11:56	Emergency Procedure	Spinning in RFC for Unit Trip Rockport 1300mw

Shared Reserve (3 Events)

09/13/2011	09/13/11 13:19	09/13/11 13:20	Emergency Procedure	133 MW with NYISO - Darlington #2 - Regulation
09/13/2011	09/13/11 13:26	09/13/11 13:43	Emergency Procedure	-133 MW with NYISO - Darlington #2 - Regulation
09/22/2011	09/22/11 16:03	09/22/11 16:21	Emergency Procedure	-109 MW with NYISO - Reybanse Wood 3 - Unit trip - 755 mw's - Regulation

Minimum Generation Alert (4 Events)

09/06/2011	09/06/11 21:14	09/07/11 05:45	Emergency Procedure	As of 21:10 hours, a Minimum Generation Alert has been issued for the Midnight of 09/07/2011 Expected generation level is within -2062 MW of normal minimum energy limits. Additional Comments: Report #31963
09/10/2011	09/10/11 21:42	09/11/11 07:20	Emergency Procedure	As of 21:40 hours, a Minimum Generation Alert has been issued for the Midnight of 9/11/2011 Expected generation level is within 2120 MW of normal minimum energy limits. Additional Comments: The valley load estimate is 62,226mws with an adjusted minimum generation of 60,106mws.
09/16/2011	09/16/11 21:13	09/17/11 08:29	Emergency Procedure	As of 21:10 hours, a Minimum Generation Alert has been issued for the Midnight of 09/17/11 Expected generation level is within -2,001 MW of normal minimum energy limits. Additional Comments: PJM RTO Valley load estimate is 59,221 MW. Please report reducible information in e-DART report #31973.
09/17/2011	09/17/11 20:02	09/18/11 08:00	Emergency Procedure	As of 20:00 hours, a Minimum Generation Alert has been issued for the Midnight of 09/18/11 Expected generation level is within -2,309 MW MW of normal minimum energy limits. Additional Comments: The PJM RTO Valley estimate is 56,720 MW. Please enter unit reducible information on e-DART #31974.

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Manual Load Dump Warning (1 event)

09/06/11	09/06/11 09:09	09/06/11 09:47	Emergency Procedure	Issued Manual Load Dump Warning for ComEd - Control Zone As of 09:09 hours, a Manual Load Dump Warning has been issued. Additional Comments: Manual Load Dump Warning - 10 MVA relief for 345KV 155 NELS-111 ELEC 15502 loss of 345KV 6 BYRON -156 CHER 0621.
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Solar Magnetic Disturbance Warning (1 event)

09/26/11	09/26/11 13:12	09/27/11 21:09	Emergency Procedure	Issued Solar Magnetic Disturbance Warning for PJM - RTO As of 12:00 hours, an SMD warning of K-8 or greater is in effect beginning at 12:00 and will continue for the next 6-18 hours hours. PJM will issue any SMD events or extended warnings posted on the RCIS by MISO St. Paul via the PJM All-Call.
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High System Voltage (6 events)

09/15/11	09/15/11 23:21	09/16/11 06:01	Emergency Procedure	Issued High System Voltage for PJM - RTO As of 23:20 New hours, all companies shall take the following actions on the Bulk Electric System: 1. Switch capacitors out of service. 2. Switch reactors in service. 3. Ensure all SVCs are absorbing reactive power. 4. Generation Owners coordinate reactive power adjustments with Transmission Owners (TOs). 5. Generation Owners communicate with PJM and TOs restrictions to their generators ability to absorb MVARs that vary from existing "D" curve. Target: Distribution Companies/Transmission Owners/Generation
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09/16/11	09/16/11 23:27	09/17/11 08:29	Emergency Procedure	Issued High System Voltage for PJM - RTO As of 23:25 New hours, all companies shall take the following actions on the Bulk Electric System: 1. Switch capacitors out of service. 2. Switch reactors in service. 3. Ensure all SVCs are absorbing reactive power. 4. Generation Owners coordinate reactive power adjustments with Transmission Owners (TOs). 5. Generation Owners communicate with PJM and TOs restrictions to their generators ability to absorb MVARs that vary from existing "D" curve. Target: Distribution Companies/Transmission Owners/Generation
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09/18/11	09/18/11 00:05	09/18/11 09:40	Emergency Procedure	Issued High System Voltage for PJM - RTO As of 00:05 New hours, all companies shall take the following actions on the Bulk Electric System: 1. Switch capacitors out of service. 2. Switch reactors in service. 3. Ensure all SVCs are absorbing reactive power. 4. Generation Owners coordinate reactive power adjustments with Transmission Owners (TOs). 5. Generation Owners communicate with PJM and TOs restrictions to their generators ability to absorb MVARs that vary from existing "D" curve. Target: Distribution Companies/Transmission Owners/Generation
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09/18/11	09/18/11 23:22	09/19/11 06:00	Emergency Procedure	Issued High System Voltage for PJM - RTO As of 23:21 New hours, all companies shall take the following actions on the Bulk Electric System: 1. Switch capacitors out of service. 2. Switch reactors in service. 3. Ensure all SVCs are absorbing reactive power. 4. Generation Owners coordinate reactive power adjustments with Transmission Owners (TOs). 5. Generation Owners communicate with PJM and TOs restrictions to their generators ability to absorb MVARs that vary from existing "D" curve. Target: Distribution Companies/Transmission Owners/Generation
09/25/11	09/25/11 03:07	09/25/11 08:30	Emergency Procedure	Issued High System Voltage for AEP - Control Zone, ComEd - Control Zone, DAYTON - Control Zone, ATSI - Control Zone As of 03:10 New EDT hours, all companies shall take the following actions on the Bulk Electric System: 1. Switch capacitors out of service. 2. Switch reactors in service. 3. Ensure all SVCs are absorbing reactive power. 4. Generation Owners coordinate reactive power adjustments with Transmission Owners (TOs). 5. Generation Owners communicate with PJM and TOs restrictions to their generators ability to absorb MVARs that vary from existing "D" curve. Target: Distribution Companies/Transmission Owners/Generation
09/30/11	09/30/11 00:31	09/30/11 07:00	Emergency Procedure	Issued High System Voltage for Mid-Atlantic - Region As of 23:59 New hours, all companies shall take the following actions on the Bulk Electric System: 1. Switch capacitors out of service. 2. Switch reactors in service. 3. Ensure all SVCs are absorbing reactive power. 4. Generation Owners coordinate reactive power adjustments with Transmission Owners (TOs). 5. Generation Owners communicate with PJM and TOs restrictions to their generators ability to absorb MVARs that vary from existing "D" curve. Target: Distribution Companies/Transmission Owners/Generation

PCLLRW's (44 total, 17 switch, 15 load, 12 Gen)

9/1/2011	9/1/2011 13:43	9/1/2011 21:30	Emergency Procedure	PCLLRW of 20 MW in the Saltville area of AEP has been issued for Transmission Contingency Control. Additional Comments: Broadford-Saltville 2 138KV line for the loss of Broadford-Saltville 1 138KV line. Post Contingency switching is to open 138kv bus tie CB 'U' at Saltville. AEP does have SCADA control for 'U' CB.
9/1/2011	9/1/2011 16:55	9/1/2011 23:20	Emergency Procedure	PCLLRW of 18 MW in the Brookside area of ATSI has been issued for Transmission Contingency Control. Additional Comments: Cantonce-Cloverdale I/o Torrey-Cloverdale.
9/1/2011	9/1/2011 16:59	9/1/2011 18:07	Emergency Procedure	PCLLRW of 20 MW in the Smithton area of APS has been issued for Transmission Contingency Control. Additional Comments: Yukon T4 I/o T1 & T3.
9/1/2011	9/1/2011 17:23	9/1/2011 17:51	Emergency Procedure	PCLLRW of 5 MW in the St.Mary's area of APS has been issued for Transmission Contingency Control. Additional Comments: Pleasants-St.Mary's I/o Kammer-Belmont-Mountaineer Reason: Generation - slow response

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9/2/2011	9/2/2011 12:06	9/2/2011 19:34	Emergency Procedure	PCLLRW of 70 MW in the Waltzmill, Smithton, Sewickle, WestRave, Youngwoo area of APS has been issued for Transmission Contingency Control. Additional Comments: Yukon #4 transformer I/o #1 and #3 500/138 kv transformers Post-contingency solution is to open the Yukon -Hatfield line
9/2/2011	9/2/2011 12:12	9/2/2011 23:06	Emergency Procedure	PCLLRW of 25 MW in the Brues area of AEP has been issued for Transmission Contingency Control. Post contingency switching is to close the Kammer C 138KV CB and open the Kammer B 138KV CB. Additional Comments: Brues-WBellair and Kammer-Natrium for the loss of Kammer .100 345/138KV transformer.
9/2/2011	9/2/2011 15:25	9/2/2011 19:34	Emergency Procedure	PCLLRW of 15 MW in the Smithton area of APS has been issued for Transmission Contingency Control. Additional Comments: Smithton-Yukon I/o Charleroi-Yukon. Post contingency switching solution; open Hatfield-Yukon 500kv line.
9/2/2011	9/2/2011 17:05	9/2/2011 20:49	Emergency Procedure	PCLLRW of 8 MW in the North Muskingum, Cannelsville, Crooksville area of AEP has been issued for Transmission Contingency Control. Additional Comments: Muskingum - North Muskingum I/o Ohio Central - Galion - Muskingum 345kv line. Reason: Load - no generation or switching available
9/3/2011	9/3/2011 11:55	9/4/2011 3:50	Emergency Procedure	PCLLRW of 10 MW in the Brues area of AEP has been issued for Transmission Contingency Control. Additional Comments: Brues-W.Bellair I/o Kammer T100 345/138kv Tx. Post contingency switching solution; Close
9/3/2011	9/3/2011 13:40	9/3/2011 15:04	Emergency Procedure	PCLLRW of 10 MW in the Heath area of AEP has been issued for Transmission Contingency Control. Additional Comments: Heath-W.Millersport I/o Ohio Central-Galion-Muskingum River 345kv line. Post contingency switching solution; Open
9/3/2011	9/3/2011 13:47	9/3/2011 21:12	Emergency Procedure	PCLLRW of 25 MW in the Niles area of ATSI has been issued for Transmission Contingency Control.
9/6/2011	9/6/2011 7:56	9/6/2011 9:47	Emergency Procedure	PCLLRW of 15 MW in the Windyedg area of BGE has been issued for Transmission Contingency Control. Additional Comments: To lower Safe Harbor post contingency if tripping of Brighton - Conastone is to happen.
9/6/2011	9/6/2011 10:52	9/6/2011 12:09	Emergency Procedure	PCLLRW of 35 MW in the VA Beach area of Dominion has been issued for Transmission Contingency Control. Additional Comments: I/o Landstown-Lynnhaven Reason: Load - no generation or switching available

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9/8/2011	9/8/2011 18:52	9/9/2011 1:57	Emergency Procedure	PCLLRW of 25 MW in the Laurel & Fairton area of AE (Atlantic Elec) has been issued for Transmission Contingency Control. Additional Comments: . Post contingency low voltages and volt drops are seen for the loss of Laurel-Carlls. Post contingency switching will be performed if required for loss of Laurel- Carlls. Post contingency swithing will be to open the Laurel-Fairton 69kv 'E' bkr due to load in the area not being scada controlled. This will be performed as needed to maintain voltage in the area. Reason: Post Contingency Switching available
9/12/2011	9/12/2011 13:07	9/12/2011 21:14	Emergency Procedure	PCLLRW of 40 MW in the FERNDALE area of BGE has been issued for Transmission Contingency Control. Additional Comments: Post-contingency thermal overload on HOWARD-PUMPHREY 2332-B I/o WAGNER 230-1 XFORMER.
9/12/2011	9/12/2011 15:19	9/13/2011 18:09	Emergency Procedure	PCLLRW of 45 MW in the Bethlehem, County line area of AEP has been issued for Transmission Contingency Control. Additional Comments: Brues-WBellaire I/o Kammer T 100 345/138kv transformer. Post contingency switching per the Kammer Op Guide is open the B and close the C 138 kv breakers at Kammer
9/12/2011	9/12/2011 19:55	9/12/2011 21:14	Emergency Procedure	PCLLRW of 125 MW in the Dolfield area of BGE has been issued for Transmission Contingency Control. Additional Comments: PCLLRW ISSUED @ 1940 for 125 mw's on the Granite - Harrison (110560) line for the I/o the STUCK BREAKER DOUBLE Northwest - Pumphrey (110561) line & the Northwest #3 bus.
9/13/2011	9/13/2011 16:15	9/13/2011 16:16	Emergency Procedure	PCLLRW of 5 MW in the carbondale area of AEP has been issued for Transmission Contingency Control. Additional Comments: Carbond2-Kanawa River I/o Maliszewski-Marysville 765/345 transformer Reason: Generation - slow response
9/13/2011	9/13/2011 18:20	9/13/2011 22:03	Emergency Procedure	PCLLRW of 50 MW in the Holston area of AEP has been issued for Transmission Contingency Control. Additional Comments: Boonehydro 1 transformer I/o Nagel 500/138kv transformer
9/14/2011	9/14/2011 16:25	9/14/2011 18:10	Emergency Procedure	PCLLRW of 30 MW in the Valley area of Dominion has been issued for Transmission Contingency Control. Additional Comments: PCLLRW ISSUED @ 1625 for 30 mw's on the Valley #1 xfmr for the I/o Valley - Dooms line and #9 xfmr.
9/15/2011	9/15/2011 11:55	9/15/2011 13:15	Emergency Procedure	PCLLRW of 10 MW in the STONEY BROOK area of FE (JC) has been issued for Transmission Contingency Control. of - STONEY BROOK - W.WHARTEON 115 KV Line for I/o W.WHARTEON - GREYSTONE 230 KV Line
9/19/2011	9/19/2011 18:23	9/19/2011 18:38	Emergency Procedure	PCLLRW of 5 MW in the Ormet area of AEP has been issued for Transmission Contingency Control. Reason: Generation - slow response

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9/19/2011	9/19/2011 20:11	9/19/2011 23:00	Emergency Procedure	PCLLRW of 2 MW in the Glendon area of FE (ME) has been issued for Transmission Contingency Control. Additional Comments: For 115kv Glendon-Hosensack for the loss of 230kv Martins Creek-Portland. Post Contingency switching will to be to open the 115kv 91432 CB at Glendon.
9/19/2011	9/19/2011 22:00	9/19/2011 22:38	Emergency Procedure	PCLLRW of 50 MW in the ORMET area area of AEP has been issued for Transmission Contingency Control. Additional Comments: Kammer-Ormet 1 138kv l/o Kammer 300 tx, post contingency switching available Reason: Post Contingency Switching available
9/20/2011	9/20/2011 8:20	9/20/2011 22:48	Emergency Procedure	PCLLRW of 5 MW in the Glendon area of FE (ME) has been issued for Transmission Contingency Control. For 115kv Glendon-Hosensack for the loss of 230kv Martins Creek-Portland. Reason: Load - no generation or switching available
9/21/2011	9/21/2011 10:02	9/21/2011 10:11	Emergency Procedure	PCLLRW of 10 MW in the Federal Square area of PSEG has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Low Voltage at Newark / Federal Square for the loss of Newark-Essex H-1308 138Kv line & Essex 11 transformer
9/21/2011	9/21/2011 10:11	9/22/2011 1:37	Emergency Procedure	PCLLRW of 10 MW in the Federal Square area of PSEG has been issued for Transmission Contingency Control. No switching or generation available at this time. Additional Comments: Post Contingency Low Voltage at Newark / Federal Square for the loss of Newark-Essex H-1308 138Kv line & Essex 11 transformer
9/21/2011	9/21/2011 11:54	9/21/2011 15:14	Emergency Procedure	PCLLRW of 10 MW in the Scalp level, Rachel Hill area of FE (PN) has been issued for Transmission Contingency Control. PCLLRW 10 mw Hooversville-Scalplevel l/o Cambria-Summit Additional Comments: No generation available, switching in place
9/21/2011	9/21/2011 17:23	9/21/2011 21:28	Emergency Procedure	PCLLRW of 17mws MW in the Balston area of Dominion has been issued for Transmission Contingency Control. Additional Comments: Ox - Glebe 248A line l/o Idylwood 230kv bus #6. Dominion has SCADA control on #2 XF at Balston. No switching or generation available. Reason: Load - no generation or switching available
9/22/2011	9/22/2011 8:28	9/22/2011 23:57	Emergency Procedure	PCLLRW of 52 MW in the Balston, Falls Church area of Dominion has been issued for Transmission Contingency Control. PCLLRW 22MW Ox-Glebe l/o Idylwood 230Kv bus #6 Additional Comments: Load, no generation or switching available
9/23/2011	9/23/2011 6:50	9/23/2011 17:16	Emergency Procedure	PCLLRW of 50 MW in the Balston, Clarendon area of Dominion has been issued for Transmission Contingency Control. PCLLRW 50mw OX-Glebe l/o Idylwood bus #6 Additional Comments: Load, no generation or switching available Reason: Load - no generation or switching available

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9/26/2011	9/26/2011 12:12	9/26/2011 12:45	Emergency Procedure	PCLLRW of 40 MW in the Alpine/Charles area of ComEd has been issued for Transmission Contingency Control. Additional Comments: for the loss of 138kv line 0624 Reason: Wind
9/26/2011	9/26/2011 13:56	9/26/2011 18:11	Emergency Procedure	PCLLRW of 15 MW in the Wescosville area of PPL has been issued for Transmission Contingency Control. Additional Comments: Wescosville #1 TR FLO Hosensack #4 230/115kV TR Reason: Load - no generation or switching available
9/26/2011	9/26/2011 15:51	9/26/2011 18:54	Emergency Procedure	PCLLRW of 67 MW in the area of AEP has been issued for Transmission Contingency Control. Additional Comments: AMOS-STALBANS I/o BAKER-BROADFORD
9/26/2011	9/26/2011 17:20	9/26/2011 19:57	Emergency Procedure	PCLLRW of 10 MW in the Jacksonburg area of APS has been issued for Transmission Contingency Control. Additional Comments: on I/o 502 Junction - kammer - Kammer#2 xfrm. Reason: Load - no generation or switching available
9/26/2011	9/26/2011 17:26	9/27/2011 0:21	Emergency Procedure	PCLLRW of 25 MW in the Glendon/Belfast/Northwood area of FE (ME) has been issued for Transmission Contingency Control. Additional Comments: Glendon-Hosensack FLO Quarry-Northwood. Post contingency switching: Open 914 @ Glendon.
9/27/2011	9/27/2011 7:08	9/27/2011 7:29	Emergency Procedure	PCLLRW of 10 MW in the Green Garden area of FE (PN) has been issued for Transmission Contingency Control. Additional Comments: GESG Tap-Gore Jct 115 kV line for the loss of the Erie West-Erie South 345 kV line. Post Contingency options: Post Contingency - order a Seneca pump off line. For additional relief order the second Seneca pump off line. For additional relief, shed load in the Green Garden area. Reason: Post Contingency Switching available
9/27/2011	9/27/2011 9:50	9/30/2011	Emergency Procedure	PCLLRW of 15 MW in the Hopkins area of AEP has been issued for Transmission Contingency Control. Additional Comments: For the loss of Baker-Broadford 765kv line
9/27/2011	9/29/2011 0:15	9/27/2011 18:07	Emergency Procedure	PCLLRW of 2 MW in the Scalp Level area of FE (PN) has been issued for Transmission Contingency Control. Additional Comments: Hooversville-Scalp Level 115 kV line for the loss of the Seward-Johnstown 230 kV line. Post Contingency options: Shed load in the Scalp Level area of PN. Reason: Load - no generation or switching available
9/27/2011	9/27/2011 15:09	9/27/2011 22:53	Emergency Procedure	PCLLRW of 10 MW in the Ruth, Chester2, Karacity area of AEP has been issued for Transmission Contingency Control. Additional Comments: Ruth-Turner loss of Baker-Broadford & Inez Stat Com On Reason: Load - no generation or switching available
9/28/2011	9/28/2011 13:37	9/28/2011 22:47	Emergency Procedure	PCLLRW of 10 MW in the Chesterfield Ave. area of AEP has been issued for Transmission Contingency Control. Additional Comments: For the loss of Baker-Broadford 765kv line. Reason: Load - no generation or switching available

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9/28/2011	9/28/2011 14:31	9/28/2011 17:48	Emergency Procedure	PCLLRW of 0 MW in the BATH area of Dominion has been issued for Transmission Contingency Control. Additional Comments: Post-contingency switching option exists for NORTH ANNA TRANSFORMER 6. PJM will order 1 Bath County generator off. Reason: Post Contingency Switching available
9/28/2011	9/28/2011 14:56	9/28/2011 19:52	Emergency Procedure	PCLLRW of 5 MW in the CAMBRIDGE area of DPL (Delmarva) has been issued for Transmission Contingency Control. Additional Comments: Post-contingency thermal violation on CAMBRIDGE - WCAMBRIDGE I/o TODD-VIENNA. No generation or switching available
9/29/2011	9/29/2011 16:08	9/29/2011 18:45	Emergency Procedure	PCLLRW of 10 MW in the WALLER TX3 area of Dominion has been issued for Transmission Contingency Control. Additional Comments: Post-contingency thermal on WALLER - LIGHTFOOT L/O 2102 LINE. Equipment limited generation. Reason: Load - no generation or switching available