

**System Operations Subcommittee**  
**PJM Operations Summary**  
**February 2012 (for January 2012 Operations)**

PJM RTO CPS1 136.2%; BAAL 99.6% (NERC 100%); (CPS2 89.7% ); 2 DCS Events

**DCS**

- 1/03/2012, Lawrenceburg CC 1 & 2 (1128MW)
- 1/30/2012 , Byron 2 (1241MW)

**Spinning** (3 Events)

<a href="#">01/03/2012</a>	01/03/12 11:50	01/03/12 12:00	<a href="#">Emergency Procedure</a>	Spinning in RFC for Unit Trip Lawrenceburg CC unit 1 and 2 tripped offline due to gas pressure issues, loaded at 600MW each.
<a href="#">01/06/2012</a>	01/06/12 18:25	01/06/12 18:33	<a href="#">Emergency Procedure</a>	Spinning in RFC for Low ACE After est. end of p.m. pick-up, load dropped out, then came back in stronger than forecasted.
<a href="#">01/23/2012</a>	01/23/12 10:02	01/23/12 10:10	<a href="#">Emergency Procedure</a>	Spinning in MIDATL for Unit Trip Stuart 4 Dayton loaded at 476 mw. Hdyro Gen scheduled off at same time and an increase in load.

**Shared Reserve** (3 Events)

<a href="#">01/07/2012</a>	01/07/12 21:46	01/07/12 21:55	<a href="#">Emergency Procedure</a>	-108 MW with NYISO - loss of Granite Ridge in NEISO - Regulation
<a href="#">01/10/2012</a>	01/10/12 15:32	01/10/12 16:00	<a href="#">Emergency Procedure</a>	-53 MW with NYISO - Madawaska DC Phase tie loss - Regulation
<a href="#">01/20/2012</a>	01/20/12 17:15	01/20/12 17:30	<a href="#">Emergency Procedure</a>	-68 MW with NYISO - Unit trip - Regulation

**Minimum Generation Alert** (2 Events)

<a href="#">01/01/2012</a>	01/01/12 22:01	01/02/12 07:34	<a href="#">Emergency Procedure</a>	- As of 22:00 hours, a Minimum Generation Alert has been issued for the Midnight of 01/02/12 Expected generation level is within -2172 MW of normal minimum energy limits. Additional Comments: E-dart Report: 32049
<a href="#">01/31/2012</a>	01/31/12 23:33	02/01/12 05:01	<a href="#">Emergency Procedure</a>	- As of 23:26 hours, a Minimum Generation Alert has been issued for the Midnight of 02/01/2012 Expected generation level is within 1799 MW of normal minimum energy limits. Additional Comments: Adj. Minimum Generation is 69,723 MW Valley Load Estimate is 71,522 MW e-dart report number 32065

**Solar Magnetic Disturbance Warning** (1 Event)

<a href="#">01/23/2012</a>	01/23/12 17:55	01/25/12 12:46	<a href="#">Emergency Procedure</a>	- Issued Solar Magnetic Disturbance Warning for PJM - RTO As of 17:50 hours, an SMD warning of K-indices of 6-9 possible or greater is in effect beginning at 07:00 and will continue for the next 24-36 hours after arrival hours. PJM will issue any SMD events or extended warnings posted on the RCIS by MISO St. Paul via the PJM All-Call. Additional Comments: NYISO has posted an RCIS message indicating expected intensity levels of K6 - K9, however, NOAA has only issued an alert of level K4. PJM will continue to monitor NOAA's alerts and update as necessary.
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**High System Voltage** (2 events)

<a href="#">01/01/2012</a>	01/01/12 23:40	01/02/12 04:28	<a href="#">Emergency Procedure</a>	- Issued High System Voltage for MA and Southern - Region As of 23:40 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
<a href="#">01/07/2012</a>	01/07/12 00:43	01/07/12 06:20	<a href="#">Emergency Procedure</a>	- Issued High System Voltage for Mid-Atlantic - Region As of 00:41 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** (20 total, 14 switch, 5 load, 1 Gen)

<a href="#">1/2/2012</a>	01/02/12 22:15	1/3/2012 4:36	<a href="#">Emergency Procedure</a>	- PCLLRW of 20 MW in the Fort Robinson area of AEP has been issued for Transmission Contingency Control. Additional Comments: Post contingency low voltages for the loss of the Nagel 500/138kV #3 transformer.
<a href="#">1/3/2012</a>	1/3/2012 4:42	Not closed	<a href="#">Emergency Procedure</a>	- PCLLRW of 10 MW in the Huffman, Pipers Gap area of AEP has been issued for Transmission Contingency Control. Additional Comments: Post contingency low voltages for the loss of Jacksons Ferry - Huffman 138kV line. Reason: Post Contingency Switching available
<a href="#">1/3/2012</a>	1/3/2012 6:54	1/3/2012 8:56	<a href="#">Emergency Procedure</a>	- PCLLRW of 10 MW in the Brema area of Dominion has been issued for Transmission Contingency Control. Additional Comments: PCLLRW issued at 0615 for the Brema Area for the I/o Brema #9 xfmr. The following are the MW values and the associated buses which would need to be shed: $\zeta$ Trices Lake 6mw $\zeta$ Cunningham DP 4mw This PCLLRW is being issued based on low voltage violations on the PJM Security Analysis. Virginia Power $\zeta$ s model does not show violations.

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<a href="#">1/3/2012</a>	01/03/12 07:19	1/3/2012 10:57	<a href="#">Emergency Procedure</a>	- PCLLRW of 15 MW in the Bayside area of Dominion has been issued for Transmission Contingency Control. Additional Comments: PCLLRW ISSUED @ 0715 for 15 mw's on the Bayside - Diamond Spring 115kv line for the l/o the Lynn Haven - Virginia Beach (2072A) 230kv line.
<a href="#">1/3/2012</a>	1/3/2012 8:11	1/3/2012 11:57	<a href="#">Emergency Procedure</a>	- PCLLRW of 12MW's MW in the Staunton/Troy area of DAYTON has been issued for Transmission Contingency Control. Additional Comments: Miami #1 Transf. for the l/o Shelby #1 Transf. Post Contingency Switching is to call Greenville CT's (24MW's relief)
<a href="#">1/3/2012</a>	01/03/12 08:18	1/3/2012 21:04	<a href="#">Emergency Procedure</a>	- PCLLRW of 8MW's MW in the Hutchings/Benner area of DAYTON has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching will be to open the BK7 69kv Transf. BKR at Crown.
<a href="#">1/3/2012</a>	01/03/12 12:35	Not closed	<a href="#">Emergency Procedure</a>	- PCLLRW of 35 MW in the EPworh, Penn Power area of ATSI has been issued for Transmission Contingency Control. Additional Comments: For post contingency low voltage in Tralum, Epworth, BMP, PPPine l/o Hoytdale-BMF 138kv line. ATSI has automatic 69 kv caps and the 138kv cap at Maple that automatically respond to low voltage. Reason: Post Contingency Switching available
<a href="#">1/3/2012</a>	01/03/12 14:34	1/3/2012 22:59	<a href="#">Emergency Procedure</a>	- PCLLRW of 15 MW in the Bayside area of Dominion has been issued for Transmission Contingency Control. Additional Comments: For the L/O 230KV line Lynnhaven- Virgina Beach. Reason: Load - no generation or switching available
<a href="#">1/3/2012</a>	01/03/12 23:11	1/3/2012 23:16	<a href="#">Emergency Procedure</a>	- PCLLRW of 10 MW in the Bayonne area of PSEG has been issued for Transmission Contingency Control. Pcllrw 10mw for Bayonne-Marion L1338 L/O Newark-Essex H-1308 issued at 2311 Additional Comments: slow generation Reason: Generation - slow response
<a href="#">1/4/2012</a>	01/04/12 13:39	1/4/2012 17:17	<a href="#">Emergency Procedure</a>	- PCLLRW of 10 MW in the Chemical area of AEP has been issued for Transmission Contingency Control. Additional Comments: This is to alleviate overloads resulting from loss of Kanawha T-B. Post-contingency switching may negate the necessity for load shed. Reason: BES 2 facility
<a href="#">1/10/2012</a>	1/10/2012 11:14	Not closed	<a href="#">Emergency Procedure</a>	PCLLRW of 30 MW in the Dixie, Jeep 2 Stikny area of ATSI has been issued for Transmission Contingency Control.

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				Additional Comments: For the loss of 138kv Dixie-Jackman due to post contingency low voltages in the Dixie and Jeep areas. Reason: Load - no generation or switching available
<a href="#">1/13/2012</a>	1/13/2012 18:15	1/13/2012 18:39	<a href="#">Emergency Procedure</a>	- PCLLRW of 30 MW in the Halfway/Marlow area of APS has been issued for Transmission Contingency Control. Additional Comments: Doubs-Frostown l/o Bedington-Doubs Stephens-Stonewal l/o Bedington-Doubs Reason: Load - no generation or switching available
<a href="#">1/14/2012</a>	1/14/2012 9:55	1/14/2012 11:17	<a href="#">Emergency Procedure</a>	- PCLLRW of 35 MW in the Cabot area of APS has been issued for Transmission Contingency Control. Additional Comments: Belmont Tx.#3 l/o Txs.#1 & 2. Post contingency switching is available.
<a href="#">1/18/2012</a>	1/18/2012 18:10	1/18/2012 20:20	<a href="#">Emergency Procedure</a>	- PCLLRW of 5 MW in the Passyunk area of PECO has been issued for Transmission Contingency Control. Additional Comments: Passyunk-Schuylkill 6631 l/o Passyunk 3 and 6 transformer
<a href="#">1/19/2012</a>	1/19/2012 10:04	1/19/2012 22:45	<a href="#">Emergency Procedure</a>	- PCLLRW of 3MW MW in the Hutchings area of DAYTON has been issued for Transmission Contingency Control. Additional Comments: For the loss of College Corner- Trenton, Post Contingency switching is available.
<a href="#">1/20/2012</a>	1/20/2012 6:46	1/20/2012 22:11	<a href="#">Emergency Procedure</a>	- PCLLRW of 15 MW in the Hutching, Benner area of DAYTON has been issued for Transmission Contingency Control. Additional Comments: l/o Sugar Creek-Bellbrook 138kv line or l/o Trenton-Hutching Post contingency switching, Open Crown BL-7 CB.
<a href="#">1/21/2012</a>	01/21/12 11:24	1/21/2012 19:04	<a href="#">Emergency Procedure</a>	- PCLLRW of 10 MW in the Hutchings, Benner area of DAYTON has been issued for Transmission Contingency Control. Additional Comments: l/o College Corner-Trenton. Post contingency switching open BL-7 at Crown.
<a href="#">1/25/2012</a>	01/25/12 07:22	1/25/2012 9:46	<a href="#">Emergency Procedure</a>	- PCLLRW of 10 MW in the Hutching, Benner area of DAYTON has been issued for Transmission Contingency Control. Additional Comments: l/o Sugar Creek-Bellbrook
<a href="#">1/25/2012</a>	01/25/12 07:40	1/25/2012 9:41	<a href="#">Emergency Procedure</a>	- PCLLRW of 26MW MW in the Bull Run area of Dominion has been issued for Transmission Contingency Control. Radial Load. No Generation or Switching available. Additional Comments: PCLLRW 26MW for BULLRUN TX3 XFORMER L/O BURKE-BULLRUN 244Line Reason: Load - no

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				generation or switching available
<a href="#">1/25/2012</a>	01/25/12 07:41	1/25/2012 9:41	<a href="#">Emergency Procedure</a>	- PCLLRW of 20MW MW in the Bull Run area of Dominion has been issued for Transmission Contingency Control. Radial Load. No Generation or Switching available. Additional Comments: PCLLRW 20MW for BULLRUN TX6 XFORMER L/O BULLRUN-LOUDOUN 295Line Reason: Load - no generation or switching available