

System Operations Subcommittee
PJM Operations Summary
December 2011 (for November 2011 Operations)

PJM RTO CPS1 128.1% ; BAAL 99.5% (NERC 100%); (CPS2 88.2%); DCS No Events

DCS

- There were no DCS events in November

Manual Load Dump Warning (0 Event)

Shared Reserve (2 Events)

11/28/2011	11/28/11 13:02	11/28/11 13:35	Emergency Procedure	-100 MW with NYISO - Grand Ridge - Regulation
11/30/2011	11/30/11 20:21	11/30/11 20:31	Emergency Procedure	-83 MW with NYISO - Astoria Energy #2 - Regulation

HLV Schedule Warning (0 Event)

HLV Schedule Action (0 Event)

Minimum Generation Alert (5 Events)

11/20/2011	11/20/11 22:45	11/21/11 06:04	Emergency Procedure	As of 22:45 hours, a Minimum Generation Alert has been issued for the Midnight of 11/21/11 Expected generation level is within -2145 MW of normal minimum energy limits. Additional Comments: Edart Report # 32023
11/24/2011	11/24/11 20:13	11/25/11 07:11	Emergency Procedure	As of 20:10 hours, a Minimum Generation Alert has been issued for the Midnight of 11/25/11 Expected generation level is within -1926 MW of normal minimum energy limits.
11/26/2011	11/26/11 22:32	11/27/11 07:15	Emergency Procedure	As of 21:50 hours, a Minimum Generation Alert has been issued for the Midnight of 11/27/11 Expected generation level is within -1060 MW of normal minimum energy limits.
11/27/2011	11/27/11 23:04	11/28/11 05:39	Emergency Procedure	As of 23:00 hours, a Minimum Generation Alert has been issued for the Midnight of 11/28/11 Expected generation level is within 1814 MW of normal minimum energy limits.

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11/28/2011	11/28/11 21:08	11/29/11 05:18	Emergency Procedure	As of 21:06 hours, a Minimum Generation Alert has been issued for the Midnight of 11/29/11 Expected generation level is within 1867 MW of normal minimum energy limits. Additional Comments: Adjusted Minimum Generation: 62351 MW Valley Load Estimate: 64218 MW e-dart report number 32031.
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E-Markets (2 events)

11/08/2011	11/08/11 16:21	11/08/11 19:43	Emergency Procedure	Issued New for PJM - RTO As of 16:15 Additional Comments: PJM anticipates posting the Day-Ahead market results at 17:00 Eastern Time. The rebid period will last 1 hour from 17:00 to 18:00, Eastern Time.
11/09/2011	11/09/11 15:37	11/12/11 00:08	Emergency Procedure	Issued New for PJM - RTO As of 15:35 Additional Comments: PJM continues to work on the eMKT issues that have been reported through Member Relations. The issues regarding NULL values on the Unit Hourly Update page have been resolved. Also, issues with browserless data submittals should also be resolved. If you need additional information or need to report any issues, please can contact the Hotline at 1-866-400-8980.

Emergency Voluntary Energy Only Demand Response (0 event)

Scarity Pricing (0 event)

Primary Reserve Warning (0 event)

Voltage Reduction Warning (0 event)

NERC EEA (0 event)

High System Voltage (16 events)

11/10/2011	11/10/11 00:07	11/10/11 05:06	Emergency Procedure	Issued High System Voltage for PJM - RTO As of 00:03 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
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Owners/Generation

11/14/2011	11/14/11 01:40	11/14/11 05:30	Emergency Procedure	Issued High System Voltage for Mid-Atlantic and Southern As of 01:40 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
11/15/2011	11/15/11 00:24	11/15/11 05:40	Emergency Procedure	Issued High System Voltage for Mid-Atlantic - Region, Southern - Region As of 00:25 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
11/16/2011	11/16/11 01:45	11/16/11 05:40	Emergency Procedure	Issued High System Voltage for Mid-Atlantic - Region, Dominion - Control Zone As of 01:42 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/Generatio
11/17/2011	11/17/11 00:30	11/17/11 05:21	Emergency Procedure	Issued High System Voltage for Mid-Atlantic - Region, Southern - Region As of 00:30 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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<u>11/20/2011</u>	11/20/11 00:45	11/20/11 09:10	<u>Emergency Procedure</u>	Issued High System Voltage for Mid-Atlantic - Region As of 00:44 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
<u>11/20/2011</u>	11/20/11 22:35	11/21/11 06:21	<u>Emergency Procedure</u>	Issued High System Voltage for Mid-Atlantic - Region As of 22:33 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
<u>11/22/2011</u>	11/22/11 23:47	11/23/11 07:10	<u>Emergency Procedure</u>	Issued High System Voltage for Mid-Atlantic - Region, Southern - Region As of 23:23 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/Gener
<u>11/23/2011</u>	11/23/11 23:55	11/24/11 09:34	<u>Emergency Procedure</u>	Issued High System Voltage for Mid-Atlantic - Region, Southern - Region As of 23:50 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
<u>11/24/2011</u>	11/24/11 13:41	11/25/11 07:11	<u>Emergency Procedure</u>	Issued High System Voltage for Mid-Atlantic - Region, Southern - Region As of 13:38 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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Additional Comments: Effective for the Mid-Atlantic and Dominion zones only.

11/25/2011	11/25/11 13:13	11/25/11 16:46	Emergency Procedure	Issued High System Voltage for Mid-Atlantic - Region, Southern - Region As of 13:11 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 Additional Comments: Effective for the Mid-Atlantic and Dominion regions only.
11/25/2011	11/25/11 22:20	11/26/11 07:45	Emergency Procedure	Issued High System Voltage for Mid-Atlantic - Region, Southern - Region As of 22:15 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
11/26/2011	11/26/11 13:00	11/26/11 16:31	Emergency Procedure	Issued High System Voltage for Mid-Atlantic - Region, Dominion - Control Zone As of 13:00 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
11/27/2011	11/27/11 00:17	11/27/11 16:11	Emergency Procedure	Issued High System Voltage for Mid-Atlantic - Region, Dominion - Control Zone As of 00:15 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

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Companies/Transmission Owners/Generation

11/28/2011	11/28/11 21:46	11/29/11 06:32	Emergency Procedure	Issued High System Voltage for Mid-Atlantic & Southern As of 21:45 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
11/29/2011	11/29/11 22:55	11/30/11 05:58	Emergency Procedure	Issued High System Voltage for Mid-Atlantic - Region, Dominion - Control Zone As of 22:48 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 (18 total, 11 switch, 4 load, 3 Gen)

11/1/2011	11/1/2011 19:24	11/1/2011 20:20	Emergency Procedure	PCLLRW of 6 MW in the Crescent area of DLCO (Duquesne) has been issued for Transmission Contingency Control. Additional Comments: For Crescent #1 transformer for the loss of Crescent #2 transformer.
11/6/2011	11/6/2011 17:30	11/6/2011 18:41	Emergency Procedure	PCLLRW of 10mw MW in the Farmers Valley area of FE (PN) has been issued for Transmission Contingency Control. Additional Comments: For the loss of Forest-Glade 230kv line.
11/9/2011	11/9/2011 14:11	11/9/2011 15:54	Emergency Procedure	PCLLRW of 5 MW in the Manchester area of Dominion has been issued for Transmission Contingency Control. Additional Comments: Manchester-Plaza LO Basin TR#5 Reason: Load - no generation or switching available
11/12/2011	11/12/2011 19:23	11/12/2011 23:09	Emergency Procedure	PCLLRW of 0 MW in the Diamond area of AEP has been issued for Transmission Contingency Control. Additional Comments:

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				MP2 Diamond-Ligonier 138 kV Line I/o Collingwood-Hiple 345 kV Line *** Post Contingency Switching (open B2 138 kV CB @ RobinsonPark & H 138 kV CB @ Albion) ***
11/13/2011	11/13/2011 8:48	11/14/2011 1:22	Emergency Procedure	PCLLRW of 0 MW in the Diamond area of AEP has been issued for Transmission Contingency Control. Additional Comments: Diamond-Ligonier 138kv I/o Collingwood-Hiple 345kv, post contingency switching at Albion: open 138kv CB 'H' and at Robinson Park: open 138kv CB 'B2'
11/15/2011	11/15/2011 8:02	11/16/2011 6:12	Emergency Procedure	PCLLRW of 15 MW in the Limerick area of PECO has been issued for Transmission Contingency Control. Additional Comments: A PCLLRW has been issued for Limerick 4A-S XF I/o Limerick-Cromby 220-60 line. Generation redispatch may be required post contingency. Reason: Generation - slow response
11/17/2011	11/17/2011 2:48	11/17/2011 6:03	Emergency Procedure	PCLLRW of 0 MW in the Limerick area of PECO has been issued for Transmission Contingency Control. Additional Comments: PCLLRW issued for Limerick 4A - 4B Transformer for L/O Cromby- Upper Providence 230kv Line. Post contingency switching: Limerick Unit #1 will lower output to clear contingency in a prearrange agreement. Reason: Post Contingency Switching available
11/17/2011	11/17/2011 14:35	11/17/2011 18:14	Emergency Procedure	PCLLRW of 5 MW in the Eureka, Pleasant, St Marys area of APS has been issued for Transmission Contingency Control. Additional Comments: I/o Kammer 765-345 xfmr
11/17/2011	11/17/2011 17:48	11/18/2011 2:00	Emergency Procedure	PCLLRW of 30 MW in the Grabill area of AEP has been issued for Transmission Contingency Control. MP2 PCLLRW 30mw for GRABILL-ROBISONP loss of MADDOXCR-ELIMA.
11/18/2011	11/18/2011 6:49	11/18/2011 7:54	Emergency Procedure	PCLLRW of 3 MW in the Wells area of DPL (Delmarva) has been issued for Transmission Contingency Control. Additional Comments: Vaughn-Wells I/o Milford AT20 Tx. Reason: Generation - slow response
11/18/2011	11/18/2011 7:17	11/18/2011 7:19	Emergency Procedure	PCLLRW of 10 MW in the Green, Grandpoint area of FE (PN) has been issued for Transmission Contingency Control. Additional Comments: Roxbury #2 transformer I/o Brighton-Conastone P/C switching open the #2 transformer Reason: Post Contingency Switching available

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11/20/2011	11/20/2011 12:28	11/20/2011 13:06	Emergency Procedure	PCLLRW of 0 MW in the Ormet area of AEP has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Low Voltage in the Ormer Area I/o Kammer .100 345/138 kV Xfmr Post Contingency Switching Available
11/20/2011	11/20/2011 19:40	Not closed	Emergency Procedure	PCLLRW of 35mw MW in the Jay, Bluffpoint, Pennville area of AEP has been issued for Transmission Contingency Control. Additional Comments: Automatic Capacitors in area will switch in service post contingency, if capacitors fail to switch load will be dumped. Post contingency low voltage for the loss of Desoto-Jay 138Kv line
11/21/2011	11/21/2011 18:04	11/21/2011 20:42	Emergency Procedure	PCLLRW of 10 MW in the Newberry area of FE (ME) has been issued for Transmission Contingency Control. Additional Comments: Carl-Roxbury 115 kV line for the loss of the Hunterstown-Texas Eastern-Gardners 115 kV line. Generation has been called that will relieve the contingency. Until the generation is on line, shed load in the Newberry area of ME. Reason: Generation - called late
11/28/2011	11/28/2011 13:11	11/30/2011 21:37	Emergency Procedure	PCLLRW of 70 MW in the Crystal, Hartford, West Street area of AEP has been issued for Transmission Contingency Control. Additional Comments: Crystal - Hickory Creek 138kv line I/o Cook - Benton Harbor 345kv line. Post Contingency switching is to open the 138kv D1 and E1 CB. Reason: Post Contingency Switching available
11/28/2011	11/28/2011 13:52	11/30/2011 14:06	Emergency Procedure	PCLLRW of 20 MW in the New Liberty area of AEP has been issued for Transmission Contingency Control. Additional Comments: East Lima - New Liberty 138kv line I/o South Berwick I/o Galion 345kv line. Post Contingency switching is to open B 138kv CB @ New Liberty and 138kv K1 and J1 CBs @ Fostoria.
11/28/2011	11/28/2011 14:51	11/28/2011 23:55	Emergency Procedure	PCLLRW of 0 MW in the Limerick-Cromby area of PECO has been issued for Transmission Contingency Control. Additional Comments: PCLLRW issued for Limerick 4A - 4B Transformer for L/O 220-61 230kv Line. Post contingency switching: Limerick Unit #1 will lower output to clear contingency in a prearrange agreement.
11/28/2011	11/28/2011 18:10	11/28/2011 19:42	Emergency Procedure	PCLLRW of 120 MW in the Brambleton, Gainesville, Pleasant Valley area of Dominion has been issued for Transmission Contingency Control. Additional Comments: Post contingency switching available at Loudoun, will open up the 230kV Loudoun -

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	Brambleton 2045 and 2094 lines.
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