

System Operations Subcommittee
PJM Operations Summary
May 2010 (for June 2010 Operations)

PJM RTO CPS1 143.7%; BAAL 99.7% (NERC 100%); (CPS2 87.6%); DCS 100%

DCS Event

- On 6/5/2010 @ 14:26 Amos #3 Tripped at 1256 MW
- On 6/8/2010 @ 9:49 Surry #1 Tripped at 854 MW
- On 6/14/2010 @ 20:45 Rockport #1 Tripped at 1310 MW
- On 6/16/2010 @ 19:21 North Anna #2 Tripped at 984 MW
- On 6/19/2010 @ 19:48 Gavin #1 Tripped at 1273 MW
- On 6/23/2010 @ 20:52 Limerick #1 Tripped at 1103 MW

Reserve Sharing (3 Events)

6/18/2010	06/18/2010	06/18/2010	Emergency Procedures	Shared Reserve: -84 MW with NYISO - Mystic 8 Loaded at 602MW tripped - Regulation
	08:10	08:20		
6/23/2010	06/23/2010	06/23/2010	Emergency Procedures	Shared Reserve: 500 MW with NYISO - PECO Limerick 1 - Spinning, Notes: Requested NPCC Shared Reserves for 10 minutes.
	20:56	21:07		
6/28/2010	06/28/2010	06/28/2010	Emergency Procedures	Shared Reserve: -158 MW with NYISO - Bowline loaded at 1050 MW.
	14:29	14:57		

100% Spinning (4 Events)

6/14/2010	06/14/2010	06/14/2010	Emergency Procedures	Spinning: Spinning in RFC for Unit Trip Rockport 1 trip loaded at 1315mws.
	20:46	21:20		
6/19/2010	06/19/2010	06/19/2010	Emergency Procedures	Spinning: Spinning in MIDATL for Unit Trip Loss of Gavin 1. Due to Feed Pump turbine fault.
	19:49	19:58		
6/23/2010	06/23/2010	06/23/2010	Emergency Procedures	Spinning: Spinning in RFC for Unit Trip PECO LIMERICK 1 Tripped off at 2053, loaded at 1102 MW.
	20:56	21:10		
6/27/2010	06/27/2010	06/27/2010	Emergency Procedures	Spinning: Spinning in MIDATL for Low ACE Low ace, waiting for CTs to hit.
	15:33	15:48		

Min Gen Alert (3 Events)

6/7/2010	06/07/2010		Emergency Procedures	Min Gen Alert: Issued Minimum Generation Alert beginning 22:32 PJM - RTO As of 22:32 hours, a Minimum Generation Alert has been issued for the Midnight of 06/08/10 Expected generation level is within -1079 MW of normal minimum energy limits. Additional Comments: PJM has issued a Minimum Generation Alert for the entire PJM RTO over the midnite period of 6-8-2010. The adjusted Minimum Generation is 53,113MW. The Valley Load Estimate is 57,192MW. Please enter all reducibles into E-Dart report number 31700.
	22:39			
6/8/2010	06/07/2010	06/08/2010	Emergency Procedures	Min Gen Alert: Issued Minimum Generation Alert beginning 22:32 PJM - RTO As of 22:32 hours, a Minimum Generation Alert has been issued for the Midnight of 06/08/10 Expected generation level is within -1079 MW of normal minimum energy limits. Additional Comments: PJM has issued a Minimum Generation Alert for the entire PJM RTO over the midnite period of 6-8-2010. The adjusted Minimum Generation is 53,113MW. The Valley Load Estimate is 57,192MW. Please enter all reducibles into E-Dart report number 31700.
	22:39	05:40		
6/30/2010	06/30/2010		Emergency Procedures	Min Gen Alert: Issued Minimum Generation Alert beginning 23:47 PJM - RTO As of 23:47 hours, a Minimum Generation Alert has been issued for the Midnight of 07/01/2010 Expected generation level is within 2239 MW of normal minimum energy limits.
	23:49			

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Max Emergency Action (2 Events)

[6/11/2010](#) 06/11/2010 06/11/2010 [Emergency Procedures](#) Emergency Procedure: Issued Max Emerg Gen Action Trans beginning 13:34 for PEPCO - Transmission Zone As of 13:34 hours, a Maximum Emergency Generation Action has been issued in Washington, DC area of PEPCO for Transmission Contingency Control. Ignore message definition of increase generation Additional Comments: ****Do not load Max Emergency generation at this time ***

[6/24/2010](#) 06/24/2010 06/24/2010 [Emergency Procedures](#) Emergency Procedure: Issued Max Emerg Gen Action Trans beginning 14:45 for AE (Atl. City Elec.) - Sub-Trans Zone As of 14:45 hours, a Maximum Emergency Generation Action has been issued in Glassboro area of AE (Atlantic Elec) for Transmission Contingency Control. Additional Comments: Maximum Emergency Generation Action is issued for transmission control. Do not load maximum emergency generation until PJM calls to request specific units.

Manual Load Dump Warning(1 Event)

[6/28/2010](#) 06/28/2010 06/28/2010 [Emergency Procedures](#) Emergency Procedure: Issued Load Dump Warning beginning 09:55 for PJM - RTO As of 09:55 hours, a Manual Load Dump Warning has been issued. Additional Comments: Fort Martin- Ronco for the loss of Pruntytown- Mt. Storm issue amount is for 150Mw relief

HLV Schedule Warning(6 Events)

[6/13/2010](#) 06/13/2010 06/13/2010 [Emergency Procedures](#) HLV Schedule Warning: Issued HLV Warning beginning 10:26 PJM - RTO As of 10:26 a Heavy Load Voltage Schedule Warning has been issued.

[6/14/2010](#) 06/14/2010 06/14/2010 [Emergency Procedures](#) HLV Schedule Warning: Issued HLV Warning beginning 08:46 PJM - RTO As of 08:46 a Heavy Load Voltage Schedule Warning has been issued.

[6/23/2010](#) 06/23/2010 06/23/2010 [Emergency Procedures](#) HLV Schedule Warning: Issued HLV Warning beginning 09:58 PJM - RTO As of 09:58 a Heavy Load Voltage Schedule Warning has been issued.

[6/24/2010](#) 06/24/2010 06/24/2010 [Emergency Procedures](#) HLV Schedule Warning: Issued HLV Warning beginning 07:10 Mid-Atlantic - Region, Dominion - Control Zone As of 07:10 a Heavy Load Voltage Schedule Warning has been issued.

[6/28/2010](#) 06/28/2010 06/28/2010 [Emergency Procedures](#) HLV Schedule Warning: Issued HLV Warning beginning 06:25 PJM - RTO As of 06:25 a Heavy Load Voltage Schedule Warning has been issued.

[6/29/2010](#) 06/29/2010 06/29/2010 [Emergency Procedures](#) HLV Schedule Warning: Issued HLV Warning beginning 07:10 PJM - RTO As of 07:10 a Heavy Load Voltage Schedule Warning has been issued.

HLV Schedule Action (5 Events)

[6/23/2010](#) 06/23/2010 06/23/2010 [Emergency Procedures](#) HLV Schedule Action: Issued HLV Action beginning 14:17 PJM - RTO As of 14:17 a Heavy Load Voltage Schedule Action has been issued. Additional Comments: Heavy Load Voltage Schedule Action is effective for all companies except ComEd.

[6/24/2010](#) 06/24/2010 06/24/2010 [Emergency Procedures](#) HLV Schedule Action: Issued HLV Action beginning 10:30 PJMCA - Control Area, Southern - Region As of 10:30 a Heavy Load Voltage Schedule Action has been issued. Additional Comments: PJM is issuing a Heavy Load Voltage Schedule Action for the Mid-Atlantic and Southern regions of the PJM RTO.

[6/27/2010](#) 06/27/2010 06/27/2010 [Emergency Procedures](#) HLV Schedule Action: Issued HLV Action beginning 15:08 PJM - RTO As of 15:08 a Heavy Load Voltage Schedule Action has been issued.

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[6/28/2010](#) 06/28/2010 06/28/2010 [Emergency Procedures](#) HLV Schedule Action: Issued HLV Action beginning 10:30 Mid-Atlantic - Region, Southern - Region As of 10:30 a Heavy Load Voltage Schedule Action has been issued. Additional Comments: All units on the 230kv system and below should increase MVAR output as necessary to maintain voltage levels within predetermined limits. Generation owners and LCCs should coordinate with the PJM Power Dispatcher to ensure units connected to the 500kv system are operated so that reasonable MVAR reserve is maintained. All companies are requested to notify the PJM Power Dispatcher any unit restrictions on maximum MVAR output or Voltage Regulator status changes.

[6/29/2010](#) 06/29/2010 06/29/2010 [Emergency Procedures](#) HLV Schedule Action: Issued HLV Action beginning 10:10 Mid-Atlantic - Region, Southern - Region As of 10:10 a Heavy Load Voltage Schedule Action has been issued.

Hot Weather Alert (11 Events)

[6/18/2010](#) 06/18/2010 10:32 [Emergency Procedures](#) Hot Weather Alert: Issued Hot Weather Alert beginning 09:15 Mid-Atlantic - Region, Southern - Region As of 09:15 hours, a Hot Weather Alert has been issued for 06/20/2010 Additional Comments: PJM is issuing a Hot Weather Alert for the entire PJM Mid-Atlantic and Southern regions for the Day and Evening periods of Sunday June 20 and Monday June 21. Forecasted temperature is Mid Atlantic region 93/82 and 90/80, Southern Region 98/85 and 91/81.

[6/19/2010](#) 06/18/2010 10:32 [Emergency Procedures](#) Hot Weather Alert: Issued Hot Weather Alert beginning 09:15 Mid-Atlantic - Region, Southern - Region As of 09:15 hours, a Hot Weather Alert has been issued for 06/20/2010 Additional Comments: PJM is issuing a Hot Weather Alert for the entire PJM Mid-Atlantic and Southern regions for the Day and Evening periods of Sunday June 20 and Monday June 21. Forecasted temperature is Mid Atlantic region 93/82 and 90/80, Southern Region 98/85 and 91/81.

[6/20/2010](#) 06/18/2010 10:32 [Emergency Procedures](#) Hot Weather Alert: Issued Hot Weather Alert beginning 09:15 Mid-Atlantic - Region, Southern - Region As of 09:15 hours, a Hot Weather Alert has been issued for 06/20/2010 Additional Comments: PJM is issuing a Hot Weather Alert for the entire PJM Mid-Atlantic and Southern regions for the Day and Evening periods of Sunday June 20 and Monday June 21. Forecasted temperature is Mid Atlantic region 93/82 and 90/80, Southern Region 98/85 and 91/81., Notes: Cancelled Hot weather Alert for Sunday at 2345hrs 6/20/2010.

[6/21/2010](#) 06/18/2010 06/21/2010 10:32 22:03 [Emergency Procedures](#) Hot Weather Alert: Issued Hot Weather Alert beginning 09:15 Mid-Atlantic - Region, Southern - Region As of 09:15 hours, a Hot Weather Alert has been issued for 06/20/2010 Additional Comments: PJM is issuing a Hot Weather Alert for the entire PJM Mid-Atlantic and Southern regions for the Day and Evening periods of Sunday June 20 and Monday June 21. Forecasted temperature is Mid Atlantic region 93/82 and 90/80, Southern Region 98/85 and 91/81., Notes: Cancelled Hot weather Alert for Sunday at 2345hrs 6/20/2010.

[6/22/2010](#) 06/21/2010 06/22/2010 09:30 23:59 [Emergency Procedures](#) Hot Weather Alert: Issued Hot Weather Alert beginning 09:20 PJMCA - Control Area, Southern - Region As of 09:20 hours, a Hot Weather Alert has been issued for 06/22/10 Additional Comments: Hot Weather Alert is in effect for the Mid-Atlantic and Southern regions of the PJM RTO for Tuesday June 22, 2010. Philadelphia forecasted temps/THI are 90/79 and Richmond forecasted temps/THI are 97/83.

[6/22/2010](#) 06/21/2010 06/22/2010 09:33 23:59 [Emergency Procedures](#) Hot Weather Alert: Issued Hot Weather Alert beginning 09:30 PJM - RTO As of 09:30 hours, a Hot Weather Alert has been issued for 06/23/10 Additional Comments: Hot Weather Alert is in effect for the entire PJM RTO on Wednesday June 23, 2010. Forecasted

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				temps/THI are: Philadelphia - 93/83 Pittsburgh - 90/81 Columbus - 94/84 Chicago - 92/83 Dayton - 93/83 Richmond - 100/86
6/22/2010	06/22/2010	06/22/2010	Emergency Procedures	Hot Weather Alert: Issued Hot Weather Alert beginning 09:28 Mid-Atlantic - Region, Southern - Region As of 09:28 hours, a Hot Weather Alert has been issued for 06/24/10 Additional Comments: PJM has issued a Hot Weather Alert for the Mid-Atlantic and Southern regions of the PJM RTO for Thursday June 24, 2010. Forecasted temps/THI are: Philadelphia: 97/84 Richmond: 101/86
	09:32	23:59		
6/23/2010	06/21/2010	06/23/2010	Emergency Procedures	Hot Weather Alert: Issued Hot Weather Alert beginning 09:20 PJMCA - Control Area, Southern - Region As of 09:20 hours, a Hot Weather Alert has been issued for 06/22/10 Additional Comments: Hot Weather Alert is in effect for the Mid-Atlantic and Southern regions of the PJM RTO for Tuesday June 22, 2010. Philadelphia forecasted temps/THI are 90/79 and Richmond forecasted temps/THI are 97/83.
	09:30	00:12		
6/23/2010	06/21/2010	06/23/2010	Emergency Procedures	Hot Weather Alert: Issued Hot Weather Alert beginning 09:30 PJM - RTO As of 09:30 hours, a Hot Weather Alert has been issued for 06/23/10 Additional Comments: Hot Weather Alert is in effect for the entire PJM RTO on Wednesday June 23, 2010. Forecasted temps/THI are: Philadelphia - 93/83 Pittsburgh - 90/81 Columbus - 94/84 Chicago - 92/83 Dayton - 93/83 Richmond - 100/86
	09:33	00:12		
6/23/2010	06/22/2010	06/23/2010	Emergency Procedures	Hot Weather Alert: Issued Hot Weather Alert beginning 09:28 Mid-Atlantic - Region, Southern - Region As of 09:28 hours, a Hot Weather Alert has been issued for 06/24/10 Additional Comments: PJM has issued a Hot Weather Alert for the Mid-Atlantic and Southern regions of the PJM RTO for Thursday June 24, 2010. Forecasted temps/THI are: Philadelphia: 97/84 Richmond: 101/86
	09:32	00:12		
6/23/2010	06/23/2010	06/23/2010	Emergency Procedures	Hot Weather Alert: Issued Hot Weather Alert beginning 00:00 PJM - RTO As of 00:00 hours, a Hot Weather Alert has been issued for 06/23/10 Additional Comments: Forecast high temperatures/THI by region: Mid Atlantic 96/82 Southern 98/84 Western 92/82
	00:28	22:10		
6/24/2010	06/23/2010	06/24/2010	Emergency Procedures	Hot Weather Alert: Issued Hot Weather Alert beginning 09:28 Mid-Atlantic - Region, Southern - Region As of 09:28 hours, a Hot Weather Alert has been issued for 06/24/10 Additional Comments: PJM has issued a Hot Weather Alert for the Mid-Atlantic and Southern regions of the PJM RTO for Thursday June 24, 2010. Forecasted temps/THI are: Philadelphia: 97/84 Richmond: 101/86
	07:50	22:08		
6/25/2010	06/23/2010	06/25/2010	Emergency Procedures	Hot Weather Alert: Issued Hot Weather Alert beginning 13:10 PJMCA - Control Area, Southern - Region As of 13:10 hours, a Hot Weather Alert has been issued for 06/25/10 Additional Comments: Hot Weather Alert is in effect for the Mid-Atlantic and Southern regions of the PJM RTO for Friday June 25, 2010. Forecasted temperature/THI are: Philadelphia: 92/79 Richmond: 94/82
	13:11	23:57		
6/25/2010	06/25/2010	06/25/2010	Emergency Procedures	Hot Weather Alert: Issued Hot Weather Alert beginning 10:15 Mid-Atlantic - Region, Southern - Region As of 10:15 hours, a Hot Weather Alert has been issued for 6/26/10 Additional Comments: Forecasted temperatures in Philadelphia is 93 with 81 THI, in Richmond 97 with 84 THI
	10:19	10:20		
6/27/2010	06/25/2010	06/27/2010	Emergency Procedures	Hot Weather Alert: Issued Hot Weather Alert beginning 10:15 Mid-Atlantic - Region, Southern - Region As of 10:15 hours, a Hot Weather Alert has been issued for 6/26/10 Additional Comments: Forecasted temperature/THI in Philadelphia 93/81, in Richmond 97/84
	10:21	06:15		
6/27/2010	06/25/2010	06/27/2010	Emergency Procedures	Hot Weather Alert: Issued Hot Weather Alert beginning 10:15 Mid-Atlantic - Region, Southern - Region As of 10:15 hours, a Hot Weather Alert has been issued for 6/27/10 Additional Comments: Forecasted temperature/THI in Philadelphia 92/82, Richmond 100/85
	10:23	23:18		
6/28/2010	06/25/2010	06/28/2010	Emergency Procedures	Hot Weather Alert: Issued Hot Weather Alert beginning 10:15 Mid-Atlantic, South As of 10:15 hours, a Hot Weather Alert has been
	10:25	21:01		

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issued for 6/28/10 Additional Comments: forecasted temperature/THI in Philadelphia 93/83, Richmond 95/84

6/29/2010	06/28/2010	06/29/2010	Emergency Procedures	Hot Weather Alert: Issued Hot Weather Alert beginning 09:50 Mid-Atlantic, South As of 09:50 hours, a Hot Weather Alert has been issued for 06/29/10 Additional Comments: Forecast high temperatures/THI: Philadelphia 91/80 Richmond 95/82
	09:55	21:03		