

System Operations Subcommittee
PJM Operations Summary
March 2011 (for February 2011 Operations)

PJM RTO CPS1 135.2%; BAAL 99.5% (NERC 100%); (CPS2 90.1%); DCS 100%

DCS Event

- On 02/01/2011 @ 20:18 Lasalle #1 Tripped at 1173 MW
- On 02/25/2011 @ 05:21 Limerick#2 Tripped at 1102 MW

100% Spinning (6 Events)

<u>2/1/2011</u>	2/25/2011 9:12	2/25/2011 9:22	Emergency Procedure	Spinning: Spinning in RFC for Unit Trip Loss of Limerick 2 loaded at 1150MW.
<u>2/8/2011</u>	2/24/2011 6:35	2/24/2011 6:49	Emergency Procedure	Spinning: Spinning in MIDATL for Transmission Synchronoso reserves activated due to transfer issues.
<u>2/9/2011</u>	2/13/2011 10:35	2/13/2011 10:49	Emergency Procedure	Spinning: Spinning in EASTERN for Constraint Activated Synchronized reserves for Eastern transfers. Notes: Activated Synchronized reserves for 15mins.
<u>2/9/2011</u>	2/9/2011 6:40	2/9/2011 6:56	Emergency Procedure	Spinning: Spinning in MIDATL for Transmission Post Contingency voltage violations on 500 kv
<u>2/13/2011</u>	2/9/2011 6:40	2/9/2011 7:03	Emergency Procedure	Spinning: Spinning in DOM for Transmission Post Contingency voltage violations on 500 kv
<u>2/24/2011</u>	2/8/2011 17:41	2/8/2011 17:52	Emergency Procedure	Spinning: Spinning in MIDATL for Constraint Spin Mid-Atlantic for Eastern Transfers
<u>2/25/2011</u>	2/1/2011 20:21	2/1/2011 20:26	Emergency Procedure	Spinning: Spinning in RFC for Unit Trip Spinning was activated @ 2021 in the RFC (excluding southern) and canceld @2026., Notes: Spinning activated for the loss of Lasalle unit 1 loaded at 1200MW.

Shared Reserve (2 Events)

<u>2/3/2011</u>	2/3/2011 22:46	2/3/2011 23:15	Emergency Procedure	Shared Reserve: -129 MW with NYISO - Bruce #5 Loaded at 875 MW – Regulation
<u>2/25/2011</u>	2/25/2011 9:19	2/25/2011 9:29	Emergency Procedure	Shared Reserve: 550 MW with NYISO - Limerick 2 loaded at 1150 MW

Cold Weather Alert (3 Events)

<u>2/7/2011</u>	2/9/2011 10:40	2/11/2011 0:25	Emergency Procedure	Emergency Procedure: Issued Cold Weather Alert beginning 10:40 for AEP - Control Zone, AP - Control Zone, ComEd - Control Zone, DAYTON - Control Zone, DLCO - Control Zone, Western - Region As of 10:40 hours, a Cold Weather Alert has been issued for 02/10/2011
<u>2/8/2011</u>	2/8/2011 11:04	2/10/2011 0:22	Emergency Procedure	Emergency Procedure: Issued Cold Weather Alert beginning 11:02 for ComEd - Control Zone As of 11:02 hours, a Cold Weather Alert has been issued for 02/09/11 Day Additional Comments: For the day and evening periods in the ComEd transmission zone only due
<u>2/9/2011</u>	2/7/2011 10:30	2/9/2011 4:29	Emergency Procedure	Emergency Procedure: Issued Cold Weather Alert beginning 10:30 for ComEd - Control Zone As of 10:30 hours, a Cold Weather Alert has been issued for 02/08/11 Day Additional Comments: For the day and evening periods of the ComEd control zone only.

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SMD (1 Warning)

<u>2/17/2011</u>	2/17/2011 21:40	2/18/2011 2:46	<u>Emergency Procedures</u>	Emergency Procedure: Issued Solar Magnetic Disturbance Warning beginning 20:28 for PJM - RTO As of 20:28 hours, an SMD warning of K-5 or greater is in effect beginning at 20:28 and will continue for the next four hours until 2/18/2011 @ 01:31 hours.
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PCLLRW's (19 Events: 0 Gen, 1 Switch, 14 Load, 4 MP2)

<u>2/2/2011</u>	2/2/2011 13:35	2/2/2011 14:27	<u>Emergency Procedures</u>	AEP : MP-2 Non-Market PCLLRW issued for 35mws f/lo Hyatt-Sawmill
<u>2/2/2011</u>	2/2/2011 13:49	2/2/2011 14:26	<u>Emergency Procedures</u>	PCLLRW of 15 MW in the enon area of N/A has been issued for Transmission Contingency Control. Additional Comments: post contingency low voltage for the loss of Dutch Fork-Windsor (sectionalized)
<u>2/2/2011</u>	2/2/2011 4:34	2/2/2011 5:33	<u>Emergency Procedures</u>	PCLLRW of 35 MW in the Huntley area of AEP has been issued for Transmission Contingency Control. Load - no generation or switching available
<u>2/9/2011</u>	2/9/2011 5:35	2/9/2011 8:38	<u>Emergency Procedures</u>	PCLLRW of 6 Mw MW in the Huffman & Pipersgap area of AEP has been issued for Transmission Contingency Control. Additional Comments: A 6 Mw PLLCRW has been issued in the Huffman and Pipersgap area for the loss of Jacksons Ferry Huffman 138 Kv line in the e
<u>2/9/2011</u>	2/9/2011 5:35	2/9/2011 8:38	<u>Emergency Procedures</u>	PCLLRW of 15 MW in the Enon area of APS has been issued for Transmission Contingency Control. Additional Comments: low voltage l/o Dutch Fork-Windsor Load - no generation or switching available
<u>2/9/2011</u>	2/9/2011 4:34	2/9/2011 5:33	<u>Emergency Procedures</u>	PCLLRW of 16 MW in the Margaret, East Run, Dents Run & Fairview area of APS has been issued for Transmission Contingency Control. Additional Comments: Low Voltages on l/o Fairview-Grantown-Rivesville Reason: Load - no generation or switching available
<u>2/9/2011</u>	2/9/2011 5:34	2/9/2011 23:31	<u>Emergency Procedures</u>	PCLLRW of 13 MW in the Enon area of APS has been issued for Transmission Contingency Control. Additional Comments: low voltage l/o Dutch Fork-Windsor 138kv
<u>2/9/2011</u>	2/9/2011 14:57	2/9/2011 21:02	<u>Emergency Procedures</u>	PCLLRW of 20 MW in the Enon area of APS has been issued for Transmission Contingency Control. Additional Comments: Issued for Post contingency low voltage at Enon over LD (MP2).
<u>2/11/2011</u>	2/11/2011 7:53	2/11/2011 11:01	<u>Emergency Procedures</u>	PCLLRW of 35 MW in the Pipers Gap & Huffman area of AEP has been issued for Transmission Contingency Control. Additional Comments: for Post Contingency Low Voltages at Piper's Gap, Huffman, and Jackson's Ferry for l/o Jackson's Ferry T 200 xfmr in an even

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<u>2/11/2011</u>	2/11/2011 7:10	2/11/2011 7:13	<u>Emergency Procedures</u>	PCLLRW of 5mw MW in the Huffman and Pipersgap area of AEP has been issued for Transmission Contingency Control Additional Comments: A 5mw PLLCRW has been issued in the Huffman and Pipersgap area for the loss of Jacksons Ferry Huffman 138 Kv line
<u>2/11/2011</u>	2/10/2011 18:55	2/11/2011 5:51	<u>Emergency Procedures</u>	PCLLRW of 3 MW in the GRANT area of AEP has been issued for Transmission Contingency Control. GRANT-GREENTO2 TIE 138 KV for L/O GREENTWN - HUMMEMEL CRK 138 KV Line Additional Comments: POST CONTINGENCY - MISO will OPEN C and E 138 KV CB at GREENTOWN Reas
<u>2/12/2011</u>	2/12/2011 4:05	2/12/2011 16:11	<u>Emergency Procedures</u>	PCLLRW of 25 MW in the Lavalett/E Lynnn/Midkiff area of AEP has been issued for Transmission Contingency Control. Recover Post contingency low voltage @ Lavalett/E Lynnn/Midkiff for L/O Tristate - W Huntington 138 KV Line
<u>2/14/2011</u>	2/14/2011 16:18	2/14/2011 22:33	<u>Emergency Procedures</u>	PCLLRW of 35 Mw MW in the Huffman, Jubalear & Pipersgap area of AEP has been issued for Transmission Contingency Control. Additional Comments: Issued for the loss of Jacksons Ferry Huffman in the event that the Galax 69 Kv capacitor does not come into se
<u>2/15/2011</u>	2/16/2011 6:27	2/16/2011 10:41	<u>Emergency Procedures</u>	PCLLRW of 10 MW in the Carls area of AE (Atlantic Elec) has been issued for Transmission Contingency Control. Additional Comments: For Carls - Sherman on L/O Deepwater 12 Trans Reason: Load - no generation or switching available, Notes: Both Carls CTs Fai
<u>2/15/2011</u>	2/15/2011 6:48	2/15/2011 23:59	<u>Emergency Procedures</u>	PCLLRW of 5mw MW in the Huffman and Pipersgap area of AEP has been issued for Transmission Contingency Control. Additional Comments: A 5mw PLLCRW has been issued in the Huffman and Pipersgap area for the loss of Jacksons Ferry Huffman 138 Kv line
<u>2/16/2011</u>	2/15/2011 6:48	2/16/2011 2:41	<u>Emergency Procedures</u>	PCLLRW of 10 MW in the Carnegie and Weirton area of APS has been issued for Transmission Contingency Control. Additional Comments: For L/O Samis - Wylie Ridge. Reason: Load - no generation or switching available
<u>2/21/2011</u>	2/21/2011 12:55	2/21/2011 21:43	<u>Emergency Procedures</u>	PCLLRW of 6 Mw MW in the Huffman & Pipersgap area of AEP has been issued for Transmission Contingency Control. Additional Comments: A 6 Mw PLLCRW has been issued in the Huffman and Pipersgap area for the loss of Jacksons Ferry Huffman 138 Kv line
<u>2/23/2011</u>	2/23/2011 5:54	2/23/2011 8:02	<u>Emergency Procedures</u>	PCLLRW of 15mws MW in the Enon area of APS has been issued for Transmission Contingency Control. Additional Comments: f/lo Dutch Fork-Windsor 138KV line
<u>2/25/2011</u>	2/25/2011 6:51	2/25/2011 8:25	<u>Emergency Procedures</u>	PCLLRW of 35 MW in the Huntley area of AEP has been issued for Transmission Contingency Control. Load - no generation or switching available