

**System Operations Subcommittee**

**PJM Operations Summary**

**January 2017 Operations – Final**

**There were 11 PCLLRWs and 2 High System Voltage events in January  
CPS1: 132.27%, BAAL: 99.66% PJM (NERC: 100%)<sup>1</sup>, CPS2: (84.97%)<sup>2</sup>, DCS: 100%**

**Spinning (5 Event)**

01.08.2017 03:21	01.08.2017 03:28	Amos 3 tripped while performing valve checks. Unit was loaded at 966 MW.  Tier 1 Total Resource Response (MW): 329.38 Tier 2 Total Resource Response (MW): 485
01.09.2017 19:24	01.09.2017 19:33	AMOS 3 tripped loaded at 1330mw  Tier 1 Total Resource Response (MW): 170.77 Tier 2 Total Resource Response (MW): 764.5
01.10.2017 13:05	01.10.2017 13:13	Stuart 1 & 2 simultaneous trip. 850mw  Tier 1 Total Resource Response (MW): 314.29 Tier 2 Total Resource Response (MW): 550.1
01.15.2017 20:13	01.15.2017 20:21	100% Spin RTO was activated at 20:13 due to low ACE, that resulted from slow generator response as unexpected system load increased 1800mw.  Tier 1 Total Resource Response (MW): 548.97 Tier 2 Total Resource Response (MW): 810
01.23.2017 09:08	01.23.2017 09:15	Lasalle 2 @ 1160mw  Tier 1 Total Resource Response (MW): 1773.56 Tier 2 Total Resource Response (MW): 0

**High System Voltage Action (2 Events)**

01.22.2017 00:45	01.22.2017 09:29	A High System Voltage has been issued; all companies shall take the following actions on the Bulk Electric System: <ol style="list-style-type: none"><li>1. All switchable capacitors are out of service.</li><li>2. All reactors are in service.</li><li>3. TOs are requested to review and adjust LTC settings as appropriate. All LTC (230 kV and above) and voltage schedule adjustments shall be coordinated with PJM Dispatch.</li></ol>
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		<p>4. All SVCs are absorbing reactive power.</p> <p>5. Generation Owners shall operate generators at the lower bandwidth of their voltage schedule when possible.</p> <p>6. Generation Owners shall communicate with PJM and the TO restrictions to their generator's ability to absorb MVARs if that capability varies from the existing "D" curve.</p> <p>Target: Distribution Companies/Transmission Owners/Generation</p>
01.23.2017 00:30	01.23.2017 05:00	<p>A High System Voltage has been issued; all companies shall take the following actions on the Bulk Electric System:</p> <ol style="list-style-type: none"><li>1. All switchable capacitors are out of service.</li><li>2. All reactors are in service.</li><li>3. TOs are requested to review and adjust LTC settings as appropriate. All LTC (230 kV and above) and voltage schedule adjustments shall be coordinated with PJM Dispatch.</li><li>4. All SVCs are absorbing reactive power.</li><li>5. Generation Owners shall operate generators at the lower bandwidth of their voltage schedule when possible.</li><li>6. Generation Owners shall communicate with PJM and the TO restrictions to their generator's ability to absorb MVARs if that capability varies from the existing "D" curve.</li></ol> <p>Target: Distribution Companies/Transmission Owners/Generation</p>

**Manual Load Dump Warning** (0 Events)

**HLV Schedule Warning** (0 Events)

**HLV Schedule Action** (0 Events)

**Hot/Cold Weather Alert** (0 Events)

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**Primary Reserve Warning** (0 Events)

**Voltage Reduction Warning** (0 Events)

**Voltage Reduction** (0 Events)

**Emergency Energy Request** (0 Events)

**Max Emergency Gen Alert** (0 Events)

**Max Emergency Generation** (0 Events)

**Shared Reserve** (3 Events)

01.12.2017 09:15	01.12.2017 09:40	Shared with: NYISO Unit/Reason: Sanday Pond
01.17.2017 13:57	01.17.2017 14:12	Shared with: NYISO Unit/Reason: ISO-NE lost one pole to Phase 2 DC tie
01.25.2017 15:16	01.25.2017 15:25	Shared with: NYISO Unit/Reason: 1/2 of Phase 2 in NE

**Min Gen Alert** (1 Event)

01.22.2017 21:12	01.23.2017 05:00	A Minimum Generation Alert has been issued for the Midnight Period of 01.23.2017 Expected generation level is within -180 MW of normal minimum energy limits.
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**Emergency Procedure** (0 Events)

**PCLLRW** (11 Events)

01.04.2017 19:22	01.04.2017 22:20	A Post Contingency Local Load Relief Warning has been issued to maintain 15518 -132 GARD 15518 2 at 202 MVA in the COMED for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
01.05.2017 17:37	01.04.2017 22:20	A Post Contingency Local Load Relief Warning has been issued to maintain 15518 -132 GARD 15518 2 at 202 MVA in the COMED for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
01.06.2017 07:34	01.06.2017 12:50	A Post Contingency Local Load Relief Warning has been issued to maintain BIERSRUN 138 KV at 127 KV in the AEP for

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		Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
01.06.2017 23:21	01.11.2017 19:06	A Post Contingency Local Load Relief Warning has been issued to maintain BIERSRUN 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
01.07.2017 13:52	01.07.2017 22:20	A Post Contingency Local Load Relief Warning has been issued to maintain GALION B54 CB at 236 MVA in the ATSI for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
01.08.2017 07:56	01.08.2017 08:59	A Post Contingency Local Load Relief Warning has been issued to maintain COLUMBI4 115 KV at 105 KV in the Dominion for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
01.08.2017 11:50	01.09.2017 07:14	A Post Contingency Local Load Relief Warning has been issued to maintain GALION B54 CB at 236 MVA in the ATSI for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
01.10.2017 06:46	01.10.2017 07:30	A Post Contingency Local Load Relief Warning has been issued to maintain EDINBURG-STRASBURG at 229 MVA in the APS for Transmission Contingency Control. Additional Comments: Post Contingency Generation redispatch available
01.27.2017 05:58	01.27.2017 06:43	A Post Contingency Local Load Relief Warning has been issued to maintain BIERSRUN 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
01.27.2017 11.06	02.11.2017 06.53	A Post Contingency Local Load Relief Warning has been issued to maintain BIERSRUN 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
01.30.2017 18:20	01.30.2017 19:27	A Post Contingency Local Load Relief Warning has been issued to maintain 02EMILY 138 KV at 127 KV in the ATSI for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available

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**Non-PCLLRW** (10 Events)

01.04.2017 17:58	01.04.2017 18:18	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain ROSS 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
01.08.2017 05:03	01.08.2017 19:59	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain MEADSSTO-CLOVERD2 CLO-MEA at 278 MVA in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Generation redispatch available
01.08.2017 08:25	01.09.2017 02:19	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BULLITCO BULC 161_69 XFR at 139 MVA in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
01.09.2017 08:56	01.09.2017 19:06	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain CEMETERD 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
01.09.2017 09:02	01.10.2017 03:37	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BROADFO2-SMYTH at 317 MVA in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
01.11.2017 10:08	01.14.2017 13:50	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain MAGLEY 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
01.18.2017 06:31	01.20.2017 20:55	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain ROSS 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
01.19.2017 07:09	01.20.2017 20:56	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain HILLCRES 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
01.29.2017 20:04	01.29.2017 23.16	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain HILLCRES 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
01.30.2017 18.17	02.03.2017 17.54	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain MOTTVILL 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available