

System Operations Subcommittee
PJM Operations Summary
January 2016 Operations (Partial)

There were 11 PCLLRWs and 1 High System Voltage event in January

CPS1: 157.1%
BAAL: 99.8%
(CPS2): (84.4%)

DCS: There were no DCS reportable events in January.

¹PJM directly measures the total number of BAAL excursions in minutes compared to the total number of minutes within a month with a target value for this performance goal at 99% on a daily and monthly basis. NERC rules limit the recovery period to no more than 30 minutes for a single event.

²PJM is participating in the BAAL field trial which substitutes for CPS2 compliance.

Manual Load Dump Warning (0 Events)

HLV Schedule Warning (0 Events)

HLV Schedule Action (0 Events)

Hot/Cold Weather Alert (2 Events)

01/15/16 12:43	1/19/2016 9:05	Cold Weather Alert	- WESTERN-Region - As of 12:30 on 01.15.2016 , a Cold Weather Alert has been issued for 01.18.2016 from 0100 to 2400 hrs. As indicated in M-13, members are expected to perform the following actions: <ul style="list-style-type:disc"> Generation (Gen) dispatchers review & update their unit parameters in eMkt through the Cold Weather Alert period paying particular attention to accurate Start-up & Notification, Min Run Time, Max Run Time, Eco Min/Max and Emergency Min/Max information. Gen dispatchers with dual fuel units confirm the equipment is functional & amount of alternate fuel available. Outages to the alternate fuel capability will be submitted to PJM via eMkt. Alternate fuel restrictions will also be communicated via eMkt. Gen dispatchers review fuel supply/delivery schedules in anticipation of greater than normal operation of units. Transmission/Gen dispatchers review plans to determine if any maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled.
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01/15/16 12:50	1/20/2016 5:30	Cold Weather Alert	- WESTERN-Region - As of 12:30 on 01.15.2016 , a Cold Weather Alert has been issued for 01.19.2016 from 0100 to 2400 hrs. As indicated in M-13, members are expected to perform the following actions: <ul style="list-style-type:disc"> Generation (Gen) dispatchers review & update their unit parameters in eMkt through the Cold Weather Alert period paying particular attention to accurate Start-up & Notification, Min Run Time, Max Run Time, Eco Min/Max and Emergency Min/Max information. Gen dispatchers with dual fuel units confirm the equipment is functional & amount of alternate fuel available. Outages to the alternate fuel capability will be submitted to PJM via eMkt. Alternate fuel restrictions will also be communicated via eMkt. Gen dispatchers review fuel supply/delivery schedules in anticipation of greater than normal operation of units. Transmission/Gen dispatchers review plans to determine if any maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled.
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Max Emergency Gen Alert (0 Events)

Primary Reserve Warning (0 Events)

Voltage Reduction Warning (0 Events)

Voltage Reduction (0 Events)

Emergency Energy Request (0 Events)

Max Emergency Generation (0 Events)

Min Gen Declaration (0 Events)

Min Gen Event (0 Events)

Local Min Gen Event (0 Events)

Spinning (1 Event)

01/18/16 17:58	1/18/2016 18:10	Spinning	<u>Spinning in PJM for Interchange - 3300 ramp</u>
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High System Voltage (0 Events)

Min. Gen Advisory (0 Event)

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Shared Reserves (2 Events)

01/05/16 08:34	1/5/2016 9:03	Shared Reserve	<u>-133 MW with NYISO - Stressed System Conditions - Regulation</u>
01/18/16 09:14	1/18/2016 9:30	Shared Reserve	<u>-80 MW with NYISO - NEWINGTON - Regulation</u>

Min Gen Alert (1 Event)

1/9/2016 21:35	1/10/2016 8:53	Min Gen Alert	<u>- As of 21:35 on 01.09.2016 hours, a Minimum Generation Alert has been issued for the Midnight of 01.10.2016 Expected generation level is within 2383 MW of normal minimum energy limits.</u>
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Capacity Emergencies (Emergency Procedure) (1 Events)

01/10/16 00:14	1/10/2016 11:31	Emergency Procedure	<u>- Issued High System Voltage for PJM-RTO-RTO As of 00:10 on 01.10.2016 hours, all companies shall take the following actions on the Bulk Electric System: 1. All switchable capacitors are out of service. 2. All reactors are in service. 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. 4. All SVCs are absorbing reactive power. 5. Generation Owners shall operate generators at the lower bandwidth of their voltage schedule when possible. 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. Target: Distribution Companies/Transmission Owners/Generation</u>
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PCLLRW (4 Events)

1/13/2016 11:10	1/13/2016 19:05	Post Contingency Local Load Relief Warning	<u>- As of 11:06 on 01.13.2016 a PCLLRW to maintain 114 NORT-110 DEVO 11411 1 at 270 MVA in the COMED area has been issued for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - COMED will return the 1311 345 kV line 13 Crawford - 116 Goodings Grove to service via SCADA control.</u>
1/18/2016 17:55	1/18/2016 19:02	Post Contingency Local Load Relief Warning	<u>- As of 17:49 on 01.18.2016 a PCLLRW to maintain FAIRTON-LAUREL 0708 at 95 MVA in the AE (Atlantic Elec) area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA</u>

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01/19/16 06:07	1/19/2016 9:56	Post Contingency Local Load Relief Warning	- As of 06:03 on 01.19.2016 a PCLLRW to maintain CULVER-OCEANCTY 6724-1 at 99 MVA in the DPL (Delmarva) area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
01/19/16 14:55	1/19/2016 18:23	Post Contingency Local Load Relief Warning	- As of 14:50 on 01.19.2016 a PCLLRW to maintain MEADOWBR-STRASBUR MST at 229 MVA in the APS area has been issued for Transmission Contingency Control. Additional Comments: Generation - slow response - Post Contingency Bath County pump will be ordered offline

Non-PCLLRW (7 Events)

01/15/16 06:21	1/15/2016 18:40	Non-Market Post Contingency Local Load Relief Warn	- As of 06:18 on 01.15.2016 , a Non-Market PCLLRW to maintain SWITCHBA 138 KV at 127 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
1/18/2016 21:45	Not closed	Non-Market Post Contingency Local Load Relief Warn	- As of 21:42 on 01.18.2016 , a Non-Market PCLLRW to maintain CLOVERD2 138 KV at 127 KV in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
1/19/2016 7:18	1/19/2016 12:38	Non-Market Post Contingency Local Load Relief Warn	- As of 07:15 on 01.19.2016 , a Non-Market PCLLRW to maintain BROADFO2-SMYTH at 317 MVA in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA
1/20/2016 2:48	1/20/2016 5:39	Non-Market Post Contingency Local Load Relief Warn	- As of 02:45 on 01.20.2016 , a Non-Market PCLLRW to maintain MEADSSTO-CLOVERD2 CLO-MEA at 278 MVA in the AEP area has been issued for Transmission Contingency Control. Additional Comments: BES 2 Facility - Remove a Smith Mountain pump from service.
01/20/16 06:21	Not closed	Non-Market Post Contingency Local Load Relief Warn	- As of 06:18 on 01.20.2016 , a Non-Market PCLLRW to maintain BROADFO2-SMYTH at 317 MVA in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA

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1/20/2016 2:48	1/20/2016 5:39	Non-Market Post Contingency Local Load Relief Warn	- As of 02:45 on 01.20.2016 , a Non-Market PCLLRW to maintain MEADSSTO-CLOVERD2 CLO-MEA at 278 MVA in the AEP area has been issued for Transmission Contingency Control. Additional Comments: BES 2 Facility - Remove a Smith Mountain pump from service.
1/20/2016 6:21	1/20/2016 11:20	Non-Market Post Contingency Local Load Relief Warn	- As of 06:18 on 01.20.2016 , a Non-Market PCLLRW to maintain BROADFO2-SMYTH at 317 MVA in the AEP area has been issued for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available - NA