

System Operations Subcommittee

PJM Operations Summary

September 2018 Operations

There were 23 PCLLRWs and 2 High System Voltage events in September

CPS1: X% BAAL: X%¹ CPS2: X%

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.

Spinning (2 Events)

09.14.2018 13:24	09.14.2018 13:31	Spinning in PJM for Unit Trip Loss of Salem 2.
09.13.2018 09:47	09.13.2018 09:54	Spinning in PJM for Unit Trip Gavin 2 tripped at ~1300mw.

Emergency Procedure Event (1 Event)

09.13.2018 09:54	09.13.2018 10:59	Dominion MOC offered Bath County generators to PJM after all call went out for spinning reserve event for the loss of Gavin 2 at ~1300mw.
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Manual Load Dump Warning (0 Events)

HLV Schedule Warning (0 Events)

HLV Schedule Action (0 Events)

Hot Weather Alert (3 Events)

09.04.2018 10:45	09.06.2018 21:55	A Hot Weather Alert has been issued from 06:00 on 09.06.2018 through 21:55 on 09.06.2018 Per M-13, members are expected to perform the following actions: 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. GENERATION DISPATCHERS: -- Review & update unit parameters in Markets Gateway through the Hot Weather Alert period paying particular attention to accurate Start-up & Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max information.	DOM MIDATL
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		<p>-- Submit alternate fuel capability & alternate fuel restrictions via Markets Gateway.</p> <p>-- Review fuel supply/delivery schedules in anticipation of greater than normal operation of units.</p> <p>-- Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated via eDART & will not affect the Planned Outage est. end date.</p> <p>-- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.</p> <p>Additional Comments: The Forecasted Temperatures and THIs are as follows:</p> <p>MID ATL: 91*F / 82 DOM: 92*F / 83</p>	
09.02.2018 10:00	09.05.2018 22:00	<p>A Hot Weather Alert has been issued from 06:00 on 09.05.2018 through 22:00 on 09.05.2018 Per M-13, members are expected to perform the following actions:</p> <p>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.</p> <p>GENERATION DISPATCHERS:</p> <p>-- Review & update unit parameters in Markets Gateway through the Hot Weather Alert period paying particular attention to accurate Start-up & Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max information.</p> <p>-- Submit alternate fuel capability & alternate fuel restrictions via Markets Gateway.</p> <p>-- Review fuel supply/delivery schedules in anticipation of greater than normal operation of units.</p> <p>-- Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated via eDART & will not affect the Planned Outage est. end date.</p>	PJM-RTO

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		<p>-- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.</p> <p>Additional Comments: Temperatures ranging from 90 to 93 degrees F and THIs ranging from 80 to 83 across the entire RTO.</p>	
09.02.2018 09:45	09.04.2018 22:00	<p>A Hot Weather Alert has been issued from 06:00 on 09.04.2018 through 22:00 on 09.04.2018 Per M-13, members are expected to perform the following actions:</p> <p>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.</p> <p>GENERATION DISPATCHERS:</p> <p>-- Review & update unit parameters in Markets Gateway through the Hot Weather Alert period paying particular attention to accurate Start-up & Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max information.</p> <p>-- Submit alternate fuel capability & alternate fuel restrictions via Markets Gateway.</p> <p>-- Review fuel supply/delivery schedules in anticipation of greater than normal operation of units.</p> <p>-- Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated via eDART & will not affect the Planned Outage est. end date.</p> <p>-- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.</p> <p>Additional Comments: Temperatures ranging from 90 to 93 degrees F and THIs ranging from 80 to 83 across the entire RTO.</p>	PJM-RTO

Primary Reserve Warning (0 Events)

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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)

Local Min Generation Event (0 Events)

Shared Reserve (4 Events)

09.20.2018 08:44	09.20.2018 08:54	-193 MW with NYISO – Chateau Guay - Regulation	NYISO
09.18.2018 05:27	09.18.2018 05:45	-152 MW with NYISO – Indian Point 1017 MW - Regulation	PJM-RTO
09.13.2018 09:50	09.13.2018 10:05	-679 MW with NYISO Gavin 2 tripped~1300mw	PJM-RTO
09.03.2018 15:12	09.03.2018 15:25	38 MW with NYISO – Portion of Mystic units (600 MW loss) - Regulation	NYISO

Min Gen Alert (1 Event)

09.08.2018 23:06	09.09.2018 07:30	A Minimum Generation Alert has been issued for the MIDNIGHT of 09.09.2018 . Expected generation level is within -2,474 MW of normal minimum energy limits. eDART Min Gen Report ID#: 34370 . Additional Comments: Adjusted Minimum Generation: 60,569 MW Valley Load Estimate: 63,043 Margin: -2,474 MW	PJM-RTO
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Min Gen Declaration (0 Events)

PCLLRW (23 Events)

09.26.2018 11:00	09.26.2018 14:48	A Post Contingency Local Load Relief Warning has been issued to maintain STURGIS 69 KV at 63.5 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.24.2018 06:51		A Post Contingency Local Load Relief Warning has been issued to maintain WARTONHI 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP

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09.21.2018 12:59	09.21.2018 20:11	A Post Contingency Local Load Relief Warning has been issued to maintain BUCKHRN-WCOSHOC at 192 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.20.2018 20:20	09.20.2018 23:22	A Post Contingency Local Load Relief Warning has been issued to maintain BUTL APS-SHANORMA KND-BT at 460 MVA in the FE(APS) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	APS
09.20.2018 15:31	09.20.2018 23:00	A Post Contingency Local Load Relief Warning has been issued to maintain VANBUREN 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.20.2018 15:09	09.20.2018 20:22	A Post Contingency Local Load Relief Warning has been issued to maintain BUCKHRN-WCOSHOC at 185 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.20.2018 15:01	09.20.2018 20:21	A Post Contingency Local Load Relief Warning has been issued to maintain EDISON2-OLIVE at 251 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.19.2018 19:07	09.23.2018 19:19	A Post Contingency Local Load Relief Warning has been issued to maintain WARTONHI 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.18.2018 16:39	09.18.2018 19:16	A Post Contingency Local Load Relief Warning has been issued to maintain YUKON TRAN 3 XFORMER at 574 MVA in the FE(APS) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	APS

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09.18.2018 15:55	09.18.2018 22:13	A Post Contingency Local Load Relief Warning has been issued to maintain VANBUREN 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.18.2018 15:06	09.18.2018 21:23	A Post Contingency Local Load Relief Warning has been issued to maintain NEWCARLI-PINEROAD at 167 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.18.2018 13:43	09.18.2018 14:37	A Post Contingency Local Load Relief Warning has been issued to maintain DELAWAIM-WESEDEL at 172 MVA in the AEP for Transmission Contingency Control. Additional Comments: requested switching @ Delaware opening 138kV T CB for contingency control AEP said they needed switchmen @ station to open bus tie on dist system	AEP
09.16.2018 12:39	09.16.2018 20:01	A Post Contingency Local Load Relief Warning has been issued to maintain 102 PALA 138 KV at 127 KV in the COMED for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	COMED
09.13.2018 16:54	09.13.2018 17:37	A Post Contingency Local Load Relief Warning has been issued to maintain YUKON TRAN 3 XFORMER at 574 MVA in the FE(APS) for Transmission Contingency Control. Additional Comments: Post Contingency Generation redispatch available	APS
09.13.2018 07:55	09.13.2018 08:02	A Post Contingency Local Load Relief Warning has been issued to maintain WARTONHI 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.06.2018 12:17	09.06.2018 20:45	A Post Contingency Local Load Relief Warning has been issued to maintain WARTONHI 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP

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09.06.2018 05:47	09.06.2018 06:08	A Post Contingency Local Load Relief Warning has been issued to maintain KITTATIN KM CB at 645 MVA in the FE(JC) for Transmission Contingency Control. Additional Comments: Post Contingency Generation redispatch available	FE-JC
09.05.2018 15:00	09.05.2018 23:03	A Post Contingency Local Load Relief Warning has been issued to maintain 102 PALA 138 KV at 127 KV in the COMED for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	COMED
09.05.2018 14:27	09.05.2018 15:01	A Post Contingency Local Load Relief Warning has been issued to maintain 102 PALA 138 KV at 127 KV in the COMED for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	COMED
09.05.2018 01:13	09.05.2018 05:24	A Post Contingency Local Load Relief Warning has been issued to maintain KITTATIN KM CB at 645 MVA in the FE(JC) for Transmission Contingency Control. Additional Comments: Post Contingency Generation redispatch available	FE-JC
09.04.2018 14:32	09.04.2018 19:19	A Post Contingency Local Load Relief Warning has been issued to maintain RUSSELCO 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	EKPC
09.04.2018 13:59	09.04.2018 19:19	A Post Contingency Local Load Relief Warning has been issued to maintain GALLATIN 138 KV at 127.7 KV in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	EKPC
09.04.2018 01:52	09.04.2018 07:14	A Post Contingency Local Load Relief Warning has been issued to maintain KITTATIN KM CB at 645 MVA in the FE(JC) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	FE-JC

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09.03.2018 12:00	09.15.2018 01:54	AEP has issued an internal PCLRW for Mottville-White Pigeon on loss of Corey-Mottville with the following post-contingency switching: Open Sturgis A, Pigeon River H, Schoolcraft A, Corey B. This has been approved by MISO.	AEP
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Non-Market PCLRW (4 events)

09.24.2018 06:50		A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain EWOOSTER 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
09.21.2018 12:42	09.23.2018 19:19	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain EWOOSTER 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.20.2018 12:49	09.20.2018 20:27	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain EWOOSTER 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
09.02.2018 15:12	09.03.2018 01:23	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain 268 ARLI 138 KV at 127 KV in the COMED for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	COMED

High System Voltage Alerts (2 events)

09.22.2018 23:00	09.23.2018 11:42	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">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	PJM- RTO
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		<p>Dispatch.</p> <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>	
09.09.2018 01:05	09.09.2018 08:37	<p>A High System Voltage has been issued; all companies shall take the following actions on the Bulk Electric System:</p> <p>1. All switchable capacitors are out of service.</p> <p>2. All reactors are in service.</p> <p>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.</p> <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>	PJM-RTO