

**System Operations Subcommittee**

**PJM Operations Summary**

**June 2018 Operations**

**There were X PCLLRWs and X High System Voltage events in June**

**There was X DCS reportable event in May**

**CPS1: X%    BAAL: X%<sup>1</sup>    CPS2: X%**

<sup>1</sup>PJM 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.

**DCS** (0 Events)

**Spinning** (1 Events)

06.04.2018 10:22	06.04.2018 10:28	Spinning in PJM for Unit Trip Loss of Braidwood 1 @ 1210 MW
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**High System Voltage Action** (0 Events)

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

**HLV Schedule Warning** (0 Events)

**HLV Schedule Action** (0 Events)

**Hot/Cold Weather Alert** (3 Events)

06.27.2018 08:00	06.27.2018 08:06	A Hot Weather Alert has been issued from 05:00 on 06.30.2018 through 22:00 on 06.30.2018 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. -- Submit alternate fuel capability & alternate fuel restrictions via Markets	PJM-RTO
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		<p>Gateway.</p> <ul style="list-style-type: none"><li>-- Review fuel supply/delivery schedules in anticipation of greater than normal operation of units.</li><li>-- Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated via eDART &amp; will not affect the Planned Outage est. end date.</li><li>-- For dual fuel units, confirm the equipment is functional &amp; amount of alternate fuel available.</li></ul>	
06.27.2018 08:00	06.27.2018 08:06	<p>A Hot Weather Alert has been issued from 05:00 on 06.29.2018 through 22:00 on 06.29.2018 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> <ul style="list-style-type: none"><li>-- Review &amp; update unit parameters in Markets Gateway through the Hot Weather Alert period paying particular attention to accurate Start-up &amp; Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max information.</li><li>-- Submit alternate fuel capability &amp; alternate fuel restrictions via Markets Gateway.</li><li>-- Review fuel supply/delivery schedules in anticipation of greater than normal operation of units.</li><li>-- Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated via eDART &amp; will not affect</li></ul>	PJM-RTO

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		the Planned Outage est. end date. -- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.	
06.27.2018 08:00	06.27.2018 08:06	<p>A Hot Weather Alert has been issued from 05:00 on 07.01.2018 through 22:00 on 07.01.2018 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 &amp; update unit parameters in Markets Gateway through the Hot Weather Alert period paying particular attention to accurate Start-up &amp; Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max information.</p> <p>-- Submit alternate fuel capability &amp; 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 &amp; will not affect the Planned Outage est. end date.</p> <p>-- For dual fuel units, confirm the equipment is functional &amp; amount of alternate fuel available.</p>	PJM-RTO
06.15.2018 15:30	06.18.2018 02:33	<p>A Hot Weather Alert has been issued from 07:00 on 06.17.2018 through 22:00 on 06.17.2018 Per M-13, members are expected to perform the following</p>	WESTERN

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		<p>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 &amp; update unit parameters in Markets Gateway through the Hot Weather Alert period paying particular attention to accurate Start-up &amp; Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max information. -- Submit alternate fuel capability &amp; alternate fuel restrictions via Markets Gateway. -- Review fuel supply/delivery schedules in anticipation of greater than normal operation of units. -- Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated via eDART &amp; will not affect the Planned Outage est. end date. -- For dual fuel units, confirm the equipment is functional &amp; amount of alternate fuel available.</p>	
06.14.2018 09:30	06.18.2018 02:33	<p>A Hot Weather Alert has been issued from 07:00 on 06.18.2018 through 22:01 on 06.18.2018 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:</p>	PJM-RTO

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		<ul style="list-style-type: none"><li>-- Review &amp; update unit parameters in Markets Gateway through the Hot Weather Alert period paying particular attention to accurate Start-up &amp; Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max information.</li><li>-- Submit alternate fuel capability &amp; alternate fuel restrictions via Markets Gateway.</li><li>-- Review fuel supply/delivery schedules in anticipation of greater than normal operation of units.</li><li>-- Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated via eDART &amp; will not affect the Planned Outage est. end date.</li><li>-- For dual fuel units, confirm the equipment is functional &amp; amount of alternate fuel available.</li></ul>	
05.31.2018 10:00	06.01.2018 22:07	<p>A Hot Weather Alert has been issued from 07:00 on 06.01.2018 through 22:00 on 06.01.2018 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> <ul style="list-style-type: none"><li>-- Review &amp; update unit parameters in Markets Gateway through the Hot Weather Alert period paying particular attention to accurate Start-up &amp; Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max information.</li><li>-- Submit alternate fuel capability &amp;</li></ul>	MIDATL, SOUTHERN

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		<p>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 &amp; will not affect the Planned Outage est. end date.</p> <p>-- For dual fuel units, confirm the equipment is functional &amp; amount of alternate fuel available.</p> <p>Additional Comments: Forecasted temperature for Friday June 1st (89 degrees for the Mid-Atlantic region and 92 degrees for the Southern Region ). Forecasted THI (81 degrees for the Mid-Atlantic region and 83 degrees for the Southern Region).</p>	
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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)
- Local Min Generation Event** (0 Events)

**Shared Reserve** (1 Event)

06.24.2018 16:42	06.24.2018 17:11	-108 MW with NYISO – Bethlehem unit trip 750 mws - Spinning	NYISO
06.19.2018 12:41	06.16.2018 13:28	-83 MW with NYISO – Nine Mile Runback - Regulation	PJM-RTO

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**Min Gen Alert** (1 Event)

06.16.2018 12:41	06.16.2018 13:28	A Minimum Generation Alert has been issued for the Midnight of 06.17.2018. Expected generation level is within -2362 MW of normal minimum energy limits. Additional Comments: PJM has issued a Minimum Generation Alert for the entire PJM RTO for the Midnight period of 6/17/2018. The adjusted minimum generation is 68,905 MW, the Valley load estimate is 71,267 MW, and the margin is -2,362 MW. Please fill out all reducibles information in EDART report #34291.	PJM-RTO
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**Emergency Procedure** (0 Event)

**PCLLRW** (8 Events)

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06.28.2018 13:28	06.28.2018 21:35	A Post Contingency Local Load Relief Warning has been issued to maintain YUKONAEP 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
06.18.2018 14:11	06.20.2018 23:47	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: Post Contingency Switching available	EKPC
06.18.2018 11:58	06.18.2018 12:56	A Post Contingency Local Load Relief Warning has been issued to maintain EELKHART-MOTTVILL at 185 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
06.16.2018 10:36	06.18.2018 14:49	A Post Contingency Local Load Relief Warning has been issued to maintain AUBURNC5 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
06.17.2018 16:47	06.19.2018 21:36	A Post Contingency Local Load Relief Warning has been issued to maintain LEON_EKP 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	EKPC
06.09.2018 15:20	06.10.2018 00:52	A Post Contingency Local Load Relief Warning has been issued to maintain BELLSMIL 121-13T XFORMER at 285 MVA in the PEPCO for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available The Load DFACTS is not displaying the correct load centers. It is showing load centers in other control zones. PEPCO is aware of this as they cannot acknowledge the PCLRW but understand it is issued.	PEPCO

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06.05.2018 12:52	06.23.2018 14:59	A Post Contingency Local Load Relief Warning has been issued to maintain YUKONAEP 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
06.01.2018 14:49	06.01.2018 21:34	A Post Contingency Local Load Relief Warning has been issued to maintain GREENWCH TX1 XFORMER at 255 MVA in the Dominion for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DOM

**Non-PCLLRW (14 Events)**

06.27.2018 14:53	06.27.2018 19:30	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BUCKHORN 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
06.26.2018 15:40	06.26.2018 18:46	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain WESTON 138 KV at 127 KV in the APS for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	APS
06.24.2018 16:20	06.25.2018 00:41	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain WESTON 138 KV at 127 KV in the APS for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	APS
06.19.2018 10:26	06.19.2018 14:26	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain TEXASEAS 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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06.18.2018 17:16	06.18.2018 21:14	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain CLOSTER-HARINGS CORNER 46 at 135 MVA in the O_R for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	RECO
06.18.2018 17:16	06.18.2018 21:14	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain CLOSTER-HARINGS CORNER 46 at 135 MVA in the O_R for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	RECO
06.18.2018 17:13	06.18.2018 21:20	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain SMAWA-UPPERSAD at 133 MVA in the O_R for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	RECO
06.11.2018 11:15	06.14.2018 11:54	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain VNEGROVE 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	EKPC
06.01.2018 09:33	06.01.2018 21:32	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain GREENCO 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	EKPC
05.31.2018 22:39	06.01.2018 02:15	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain EDENSRID 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: BES 2 Facility	AEP

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05.31.2018 14:46	06.01.2018 02:15	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain SHEFFIEL 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.31.2018 13:26	06.01.2018 06:42	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain GREENCO 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	EKPC
05.31.2018 12:41	06.01.2018 02:15	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain HWBUCKHO 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.31.2018 12:39	06.01.2018 02:15	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BLUFFPOI 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.31.2018 10:23	06.21.2018 11:02	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain ESIDELIM 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP