

System Operations Subcommittee
PJM Operations Summary
July 2016 Operations – Final

There were 19 PCLLRWs and 0 High System Voltage events in July

CPS1: 126.1%, BAAL: 99.72% PJM (NERC: 100%)¹, CPS2: (78.2%)², DCS: 100%

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.

Spinning (2 Events)

Date	Start Time	End Time	Duration (min)	Region
07/06/2016	00:40:36	00:45:26	4	RTO
Tier 1 Estimate (MW)	Tire 1 Response (MW)	Tire 2 Assigned (MW)	Tier 2 Response (MW)	Tire 2 Penalty (MW)
2223.90*	259.36*	0* ¹	0* ¹	0* ¹
Description				
CONST Limerick 2 SCRAM due to internal plant issues.				

Date	Start Time	End Time	Duration (min)	Region
07/28/2016	13:28:56	13:43:53	14	RTO
Tier 1 Estimate (MW)	Tire 1 Response (MW)	Tire 2 Assigned (MW)	Tier 2 Response (MW)	Tire 2 Penalty (MW)
726.10*	439.31*	681.0*	377.7*	303.3*
Description				
Spinning in MAD for Unit Trip Superceded by Spinning RTO				

* These are preliminary numbers and may change upon final review

¹ For the Tier 2 Compliance Check, if a synchronized reserve event did not last at least 10 minutes in duration, not penalties are evaluated for Tier 2 resources. The color coding of true and false was left in so that it is easier to see which resources provided response

High System Voltage Action (0 Events)

Manual Load Dump Warning (0 Events)

HLV Schedule Warning (0 Events)

HLV Schedule Action (0 Events)

System Operations Subcommittee
PJM Operations Summary
July 2016 Operations – Final

Hot/Cold Weather Alert (14 Events)

7/5/2016 11:00	7/7/2016 22:37	<p>- MIDATL-Region A Hot Weather Alert has been issued from 08:00 on 07.07.2016 through 22:30 on 07.07.2016 . As indicated in M-13, members are expected to perform the following actions: - Generation (Gen) dispatchers review & update their unit parameters in Markets Gateway through the Hot 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 Markets Gateway. - Alternate fuel restrictions will also be communicated via Markets Gateway. - 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. Additional Comments: For Thursday, July 7, 2016. A Hot Weather Alert is NOT a trigger for a Performance Assesment Hour.</p>
7/6/2016 11:00	7/8/2016 21:37	<p>- MIDATL-Region, DOM-Control Area A Hot Weather Alert has been issued from 07:00 on 07.08.2016 through 21:37 on 07.08.2016 . As indicated in M-13, members are expected to perform the following actions: - Generation (Gen) dispatchers review & update their unit parameters in Markets Gateway through the Hot 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 Markets Gateway. - Alternate fuel restrictions will also be communicated via Markets Gateway. - 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. Additional Comments: For Friday, July 8 2016. A Hot Weather Alert is NOT a trigger for a Performance Assesment Hour.</p>

System Operations Subcommittee
PJM Operations Summary
July 2016 Operations – Final

<p>7/12/2016 13:00</p>	<p>7/15/2016 0:44</p>	<p>- DOM-Control Area, MIDATL-Region A Hot Weather Alert has been issued from 08:00 on 07.14.2016 through 22:00 on 07.14.2016 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 Cold 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 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 & will not affect the Planned Outage est. end date. -- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.</p>
<p>7/12/2016 13:00</p>	<p>7/15/2016 22:01</p>	<p>- MIDATL-Region, DOM-Control Area A Hot Weather Alert has been issued from 08:00 on 07.15.2016 through 22:00 on 07.15.2016 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 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 & will not affect the Planned Outage est. end date. -- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.</p>

System Operations Subcommittee
PJM Operations Summary
July 2016 Operations – Final

<p>7/15/2016 10:00</p>	<p>7/18/2016 22:34</p>	<p>- DOM-Control Area, MIDATL-Region A Hot Weather Alert has been issued from 08:00 on 07.18.2016 through 22:00 on 07.18.2016 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 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 & will not affect the Planned Outage est. end date. -- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.</p>
<p>7/19/2016 13:00</p>	<p>7/21/2016 23:07</p>	<p>- COMED-Control Area A Hot Weather Alert has been issued from 07:00 on 07.21.2016 through 23:00 on 07.21.2016 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 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 & will not affect the Planned Outage est. end date. -- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.</p>

System Operations Subcommittee
PJM Operations Summary
July 2016 Operations – Final

<p>7/20/2016 8:00</p>	<p>7/22/2016 23:07</p>	<p>- PJM-RTO-RTO A Hot Weather Alert has been issued from 07:00 on 07.22.2016 through 23:00 on 07.22.2016 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 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 & will not affect the Planned Outage est. end date. -- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.</p>
<p>7/20/2016 8:00</p>	<p>7/23/2016 23:00</p>	<p>- PJM-RTO-RTO A Hot Weather Alert has been issued from 07:00 on 07.23.2016 through 23:00 on 07.23.2016 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 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 & will not affect the Planned Outage est. end date. -- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.</p>

System Operations Subcommittee
PJM Operations Summary
July 2016 Operations – Final

<p>7/20/2016 8:00</p>	<p>7/24/2016 23:01</p>	<p>- PJM-RTO-RTO A Hot Weather Alert has been issued from 07:00 on 07.24.2016 through 23:01 on 07.24.2016 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 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 & will not affect the Planned Outage est. end date. -- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.</p>
<p>7/20/2016 09:02</p>	<p>7/25/2016 23:05</p>	<p>PJM-RTO-RTO A Hot Weather Alert has been issued from 07:00 on 07.25.2016 through 23:05 on 07.25.2016 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 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 & will not affect the Planned Outage est. end date. -- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.</p>

System Operations Subcommittee
PJM Operations Summary
July 2016 Operations – Final

<p>7/24/2016 15:04</p>	<p>7/26/2016 23:05</p>	<p>MIDATL-Region, DOM-Control Area A Hot Weather Alert has been issued from 07:00 on 07.26.2016 through 23:05 on 07.26.2016 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 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 & will not affect the Planned Outage est. end date. -- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available. Additional Comments: Forecast temperatures/THIs: Philadelphia 7/26 95/82; Richmond 7/26 95/85</p>
<p>7/24/2016 15:07</p>	<p>7/27/2016 23:03</p>	<p>MIDATL-Region, DOM-Control Area A Hot Weather Alert has been issued from 07:00 on 07.27.2016 through 23:00 on 07.27.2016 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 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 & will not affect the Planned Outage est. end date. -- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available. Additional Comments: Forecast temperatures/THIs: Philadelphia 94/81; Richmond 92/83</p>

System Operations Subcommittee
PJM Operations Summary
July 2016 Operations – Final

<p>7/26/2016 09:16</p>	<p>7/26/2016 09:16</p>	<p>DOM-Control Area, MIDATL-Region A Hot Weather Alert has been issued from 09:15 on 07.26.2016 through 09:15 on 07.26.2016 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 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 & will not affect the Planned Outage est. end date. -- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.</p>
<p>7/26/2016 09:27</p>	<p>7/28/2016 22:19</p>	<p>MIDATL-Region, DOM-Control Area A Hot Weather Alert has been issued from 07:00 on 07.28.2016 through 23:00 on 07.28.2016 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 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 & will not affect the Planned Outage est. end date. -- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.</p>

Primary Reserve Warning (0 Events)

Voltage Reduction Warning (0 Events)

Voltage Reduction (0 Events)

Emergency Energy Request (0 Events)

System Operations Subcommittee
PJM Operations Summary
July 2016 Operations – Final

Max Emergency Gen Alert (0 Events)

Max Emergency Generation (0 Events)

Shared Reserve (3 Events)

7/6/2016 9:40	7/6/2016 10:10	-150 MW with NYISO - INDIAN POINT 2 - Regulation
7/13/2016 13:13	7/13/2016 13:40	-73 MW with NYISO - Bowline 540 MW
7/23/2016 0:56	7/23/2016 1:15	-141 MW with NYISO - IESO Darlington #1 Loaded at 941 MWs - Regulation

Min Gen Alert (5 events)

7/2/2016 20:33	7/3/2016 8:57	- A Minimum Generation Alert has been issued for the Midnight period of 07.03.2016 Expected generation level is within -1633 MW of normal minimum energy limits.
7/3/2016 19:14	7/4/2016 8:29	- A Minimum Generation Alert has been issued for the Midnight Period of 07.04.2016 Expected generation level is within 1162 MW of normal minimum energy limits.
7/4/2016 20:55	7/5/2016 5:05	- A Minimum Generation Alert has been issued for the Midnight of 07.05.2016 Expected generation level is within 645 MW of normal minimum energy limits.
7/9/2016 21:31	7/10/2016 7:51	- A Minimum Generation Alert has been issued for the Midnight of 07.10.2016 Expected generation level is within -1727 MW of normal minimum energy limits.
7/16/2016 20:35	7/17/2016 7:30	- A Minimum Generation Alert has been issued for the Midnight of 07.17.2016 Expected generation level is within -3832 MW of normal minimum energy limits.

Emergency Procedure (0 Events)

System Operations Subcommittee
PJM Operations Summary
July 2016 Operations – Final

PCLLRW (19 Events)

7/6/2016 16:29	7/6/2016 18:18	- A PCLLRW has been issued to maintain LANHAM 115 KV at 106 KV in the PEPCO for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/7/2016 13:23	7/7/2016 18:48	- A PCLLRW has been issued to maintain MILLWOO2-NBELLVIL MIL-NBE at 134 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/11/2016 12:38	7/11/2016 21:20	- A PCLLRW has been issued to maintain CNTRLHAR 138 KV at 127 KV in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/11/2016 12:39	7/11/2016 21:20	- A PCLLRW has been issued to maintain NELSON_C 138 KV at 127 KV in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/11/2016 13:10	7/11/2016 15:13	- A PCLLRW has been issued to maintain MILLWOO2-NBELLVIL MIL-NBE at 134 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/11/2016 17:03	7/11/2016 19:10	- A PCLLRW has been issued to maintain BELMONT TRAN 3 XFORMER at 607 MVA in the APS for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/11/2016 18:59	7/11/2016 20:15	- A PCLLRW has been issued to maintain BOSSERMN-OLIVE BOS-OLI at 156 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/13/2016 12:56	7/13/2016 17:22	- A PCLLRW has been issued to maintain NELSON_C 138 KV at 127 KV in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available

System Operations Subcommittee
PJM Operations Summary
July 2016 Operations – Final

7/13/2016 20:39	7/13/2016 22:45	- A PCLLRW has been issued to maintain JACK ME-NHANOVER 968 at 131 MVA in the FE (ME) for Transmission Contingency Control. Additional Comments: Generation - slow response
7/14/2016 11:21	7/14/2016 12:49	- A PCLLRW has been issued to maintain JACK ME-NHANOVER 968 at 131 MVA in the FE (ME) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/14/2016 16:41	7/14/2016 17:00	- A PCLLRW has been issued to maintain NEWBERRY-ROUNDTOP 975-1 at 147 MVA in the FE (PN) for Transmission Contingency Control. Additional Comments: Generation - slow response
7/14/2016 17:00	7/14/2016 19:00	- A PCLLRW has been issued to maintain MIDDLEJCT 115 5 TX RE REACT at 104 MVA in the FE (PN) for Transmission Contingency Control. Additional Comments: Generation - slow response
7/19/2016 13:00	7/19/2016 20:48	- A PCLLRW has been issued to maintain CNTRLHAR 138 KV at 127 KV in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/19/2016 17:33	7/19/2016 19:41	- A PCLLRW has been issued to maintain YOUNGWOON-YUKON YU-YO at 287 MVA in the APS for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
7/25/2016 12:39	7/25/2016 12:42	A PCLLRW has been issued to maintain LANHAM 115 KV at 106 KV in the PEPCO for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/25/2016 12:42	7/25/2016 21:31	A PCLLRW has been issued to maintain LANHAM 115 KV at 106 KV in the PEPCO for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/25/2016 12:52	7/25/2016 21:31	A PCLLRW has been issued to maintain LANHAM 115 KV at 106 KV in the PEPCO for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available Reason: (no value provided)

System Operations Subcommittee
PJM Operations Summary
July 2016 Operations – Final

7/25/2016 13:45	7/26/2016 0:09	A PCLLRW has been issued to maintain NSALISBUR-PEMBERTON 6701-1 at 90 MVA in the DPL (Delmarva) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/25/2016 15:45	7/25/2016 21:30	A PCLLRW has been issued to maintain RIVERSID 115011 SER DEV at 437 MVA in the BGE for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching

Non-PCLLRW (27 events)

7/5/2016 15:37	7/6/2016 0:18	- A PCLLRW has been issued to maintain COUNTYLI 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
7/6/2016 13:55	7/6/2016 20:41	- A PCLLRW has been issued to maintain COUNTYLI 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
7/7/2016 7:58	7/7/2016 9:10	- A PCLLRW has been issued to maintain FIELDALE-THORNTON at 157 MVA in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
7/7/2016 15:45	7/7/2016 21:33	- A PCLLRW has been issued to maintain COUNTYLI 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
7/8/2016 9:07	7/8/2016 14:02	- A PCLLRW has been issued to maintain COBURG 69 KV at 61.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
7/11/2016 15:15	7/11/2016 19:38	- A PCLLRW has been issued to maintain THELMA 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/11/2016 16:08	7/11/2016 20:15	- A PCLLRW has been issued to maintain COREY 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/12/2016 11:31	7/12/2016 19:21	- A PCLLRW has been issued to maintain COREY 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/12/2016 14:04	7/12/2016 15:22	- A PCLLRW has been issued to maintain EELKHART-MOTTVTAP at 192 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available

System Operations Subcommittee
PJM Operations Summary
July 2016 Operations – Final

7/13/2016 13:27	7/15/2016 7:04	- A PCLLRW has been issued to maintain COREY 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/13/2016 14:25	7/13/2016 20:48	- A PCLLRW has been issued to maintain HIGHLND2-MARTIDPL HIG-09M1 at 68 MVA in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
7/13/2016 16:17	7/13/2016 17:19	- A PCLLRW has been issued to maintain BULLITCO BULC 161_69 XFR at 117 MVA in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/18/2016 10:31	7/18/2016 11:55	- A PCLLRW has been issued to maintain BAKER1 138 KV at 127 KV in the APS for Transmission Contingency Control. Additional Comments: BES 2 Facility
7/18/2016 11:23	7/18/2016 23:20	- A PCLLRW has been issued to maintain EHUNTING 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: BES 2 Facility
7/18/2016 12:00	7/18/2016 15:29	- External Lagrange - N Langrange 69 kV for I/o E Elkhart - Mottville - Post Cont AEP will open Strugis A 69 kV CB
7/18/2016 15:55	7/18/2016 21:00	- A PCLLRW has been issued to maintain HUNTINGT-SORENSEN at 138 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/19/2016 11:53	7/19/2016 23:59	- A PCLLRW has been issued to maintain MOTTVILL 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: BES 2 Facility
7/19/2016 13:26	7/19/2016 16:01	- A PCLLRW has been issued to maintain HUNTINGT-SORENSEN at 138 MVA in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
7/20/2016 12:16	7/20/2016 23:04	- A PCLLRW has been issued to maintain MOTTVILL 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/21/2016 11:22	7/21/2016 22:33	- A PCLLRW has been issued to maintain MOTTVILL 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/22/2016 8:28	7/22/2016 9:50	- A PCLLRW has been issued to maintain HUNTINGT-SORENSEN at 138 MVA in the AEP for Transmission Contingency Control. Additional Comments: BES 2 Facility
7/22/2016 12:46	7/22/2016 21:03	- A PCLLRW has been issued to maintain MOTTVTAP 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available

System Operations Subcommittee
PJM Operations Summary
July 2016 Operations – Final

7/23/2016 12:19	7/26/2016 00:15	- A PCLLRW has been issued to maintain HIGHLND2-MARTIDPL HIG-09M1 at 68 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/23/2016 14:21	7/24/2016 5:13	- A PCLLRW has been issued to maintain CARROLLT 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available
7/25/2016 9:31	7/25/2016 21:29	A PCLLRW has been issued to maintain EHUNTING 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/27/2016 12:51	7/27/2016 21:26	A PCLLRW has been issued to maintain EHUNTING 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available
7/31/2016 17:24	7/31/2016 19:32	A PCLLRW has been issued to maintain GOLDBUG 69 KV at 61.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: Pre contingency voltage is too high to put caps in service.