

**System Operations Subcommittee**  
**PJM Operations Summary**  
**May Operations**

**There were 19 PCLLRWs and 2 High System Voltage Actions in May**

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

<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.

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

|                             |  |  |                |
|-----------------------------|--|--|----------------|
| <p>05.27.2019<br/>02:30</p> |  | <p>A High System Voltage Action has been issued; 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</p> | <p>PJM-RTO</p> |
| <p>05.05.2019<br/>00:16</p> |  | <p>A High System Voltage Action has been issued; 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</p>  | <p>PJM-RTO</p> |

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|  |  | 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 |  |
|--|--|--|--|

**GMD Warning** (1 Events)

|                     |                  |  |         |
|---------------------|------------------|--|---------|
| 05.14.2019<br>04:45 | 05.14.2019 08:00 | A Geomagnetic Disturbance Warning has been issued for 05:45 on 05.14.2019 through 08:00 on 05.14.2019 . A GMD warning of K7 or greater is in effect for this period. | PJM-RTO |
|---------------------|------------------|--|---------|

**Spinning** (0 Events)

**Manual Load Dump Event** (0 Event)

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

**HLV Schedule Warning** (0 Events)

**HLV Schedule Action** (0 Events)

**Hot Weather Alert** (0 Events)

**Cold Weather Alert**(0 Event)

**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** (6 Events)

|                     |                  |  |         |
|---------------------|------------------|--|---------|
| 05.30.2019<br>12:26 | 05.30.2019 13:55 | -500 MW with VACAR - Blues Creek 2 - Regulation                  | PJM-RTO |
| 05.17.2019<br>23:05 | 05.17.2019 23:15 | -100 MW with NYISO - Loss of Pilgrim Unit in NE ISO - Regulation | PJM-RTO |

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| 05.13.2019<br>05:32 | 05.13.2019 05:45 | -81 MW with NYISO  | PJM-RTO |
| 05.10.2019<br>23:16 | 05.10.2019 23:36 | -88 MW with NYISO  | PJM-RTO |
| 05.10.2019<br>05:08 | 05.10.2019 05:38 | -68 MW with NYISO  | PJM-RTO |
| 05.07.2019<br>22:42 | 05.07.2019 23:05 | -113 MW with NYISO | PJM-RTO |

**Min Gen Alert** (0 Events)

**Min Gen Declaration** (0 Events)

**PCLLRW** (19 Events)

|                     |                  |   |         |
|---------------------|------------------|---|---------|
| 05.31.2019<br>13:29 | 05.31.2019 21:27 | A Post Contingency Local Load Relief Warning has been issued to maintain BMF 138 KV at 127.0 KV in the FE(ATSI) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available       | FE-ATSI |
| 05.31.2019<br>11:45 | 05.31.2019 13:28 | A Post Contingency Local Load Relief Warning has been issued to maintain BMF 138 KV at 127.0 KV in the FE(ATSI) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available | FE-ATSI |
| 05.30.2019<br>11:10 | 05.30.2019 19:42 | A Post Contingency Local Load Relief Warning has been issued to maintain BMF 138 KV at 127.0 KV in the FE(ATSI) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available       | FE-ATSI |

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| 05.30.2019<br>10:53 | 05.30.2019 13:07 | A Post Contingency Local Load Relief Warning has been issued to maintain GREENBRI 138 KV at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - Voltages in the area do not support placing caps in service pre-contingency | AEP     |
| 05.30.2019<br>10:32 | 05.30.2019 10:56 | Greenbriar area 138 kv for l/o Bradley T1 transformer to maintain voltage above 127 kv. Voltages in the area do not support placing caps in service pre-contingency.  | AEP     |
| 05.29.2019<br>13:57 | 05.29.2019 21:23 | A Post Contingency Local Load Relief Warning has been issued to maintain MUSKING2-SCALDWEL MUS-SCA2 at 213.0 MVA in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - open S Caldwell 138kv 'B' CB                                    | AEP     |
| 05.29.2019<br>10:30 | 05.29.2019 23:20 | A Post Contingency Local Load Relief Warning has been issued to maintain BMF 138 KV at 127.0 KV in the FE(ATSI) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - 69 kV caps at pine  | FE-ATSI |
| 05.28.2019<br>10:07 | 05.29.2019 23:25 | A Post Contingency Local Load Relief Warning has been issued to maintain BMF 138 KV at 127.0 KV in the FE(ATSI) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available   | FE-ATSI |
| 05.27.2019<br>16:13 | 05.27.2019 23:08 | A Post Contingency Local Load Relief Warning has been issued to maintain BMF 138 KV at 127.0 KV in the FE(ATSI) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - Due to High Voltage 69kV caps only available post contingency.              | FE-ATSI |

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| 05.26.2019<br>19:25 | 05.26.2019 20:02 | A Post Contingency Local Load Relief Warning has been issued to maintain CHURCH-NEWMERED 6704-1 at 93.0 MVA in the DPL(Delmarva) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available               | DPL     |
| 05.25.2019<br>13:27 | 05.25.2019 19:07 | A Post Contingency Local Load Relief Warning has been issued to maintain ESSEX1 138 KV at 127.0 KV in the FE(ATSI) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available                                   | FE-ATSI |
| 05.25.2019<br>12:10 | 05.25.2019 20:29 | A Post Contingency Local Load Relief Warning has been issued to maintain BMF 138 KV at 127.0 KV in the FE(ATSI) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available                                      | FE-ATSI |
| 05.23.2019<br>13:33 | 05.24.2019 02:51 | A Post Contingency Local Load Relief Warning has been issued to maintain BMF 138 KV at 127.0 KV in the FE(ATSI) for Transmission Contingency Control. Additional Comments: Post Contingency Switching available<br>Generation or Switching available | FE-ATSI |
| 05.22.2019<br>15:01 | 05.22.2019 20:58 | A Post Contingency Local Load Relief Warning has been issued to maintain SUMSHADE 161 KV at 148.9 KV in the EKPC for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available                               | EKPC    |
| 05.20.2019<br>14:13 | 05.20.2019 18:46 | A Post Contingency Local Load Relief Warning has been issued to maintain PINEYGRO 69 KV at 65.0 KV in the DPL(Delmarva) for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available                        | DPL     |
| 05.19.2019<br>20:43 | 05.19.2019 21:34 | A Post Contingency Local Load Relief Warning has been issued to maintain BEDFORD B37 CB at 158.0 MVA in the FE(PN) for Transmission Contingency Control. Additional Comments: Load -No   | FE-PN   |

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|                     |                  | Generation or Switching available   |      |
| 05.19.2019<br>11:11 | 05.19.2019 22:18 | A Post Contingency Local Load Relief Warning has been issued to maintain DIMMICK-TP5483 DIM-TP54 at 186.0 MVA in the DEOK for Transmission Contingency Control. Additional Comments: Post Contingency Switching available                           | DEOK |
| 05.18.2019<br>20:41 | 05.18.2019 22:50 | A Post Contingency Local Load Relief Warning has been issued to maintain 08DIMICK-PORTUNIO 5483 at 203.0 MVA in the DEOK for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - open Foster 138kv 965 CB | DEOK |
| 05.18.2019<br>20:35 | 05.18.2019 20:41 | A Post Contingency Local Load Relief Warning has been issued to maintain 08DIMICK-PORTUNIO 5483 at 203.0 MVA in the DEOK for Transmission Contingency Control. Additional Comments: Post Contingency Switching available - open Foster 138kv 965 CB | DEOK |

**Non-Market PCLRW (4 Events)**

|                     |                  |   |        |
|---------------------|------------------|---|--------|
| 05.28.2019<br>17:00 | 03.04.2019 21:19 | A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain DARRAH 138 KV at 127.0 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available     | AEP    |
| 05.28.2019<br>05:16 | 03.04.2019 17:07 | A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BATH-09TREBEI at 220.0 MVA in the DAYTON for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available | DAYTON |

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|---------------------|------------------|---|--------|
| 05.28.2019<br>00:19 | 03.05.2019 01:22 | A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BATH-09TREBEI at 220.0 MVA in the DAYTON for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available | DAYTON |
| 05.27.2019<br>23:42 | 05.28.2019 00:20 | A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BATH-09TREBEI at 220.0 MVA in the DAYTON for Transmission Contingency Control. Additional Comments: Generation - slow response                 | DAYTON |