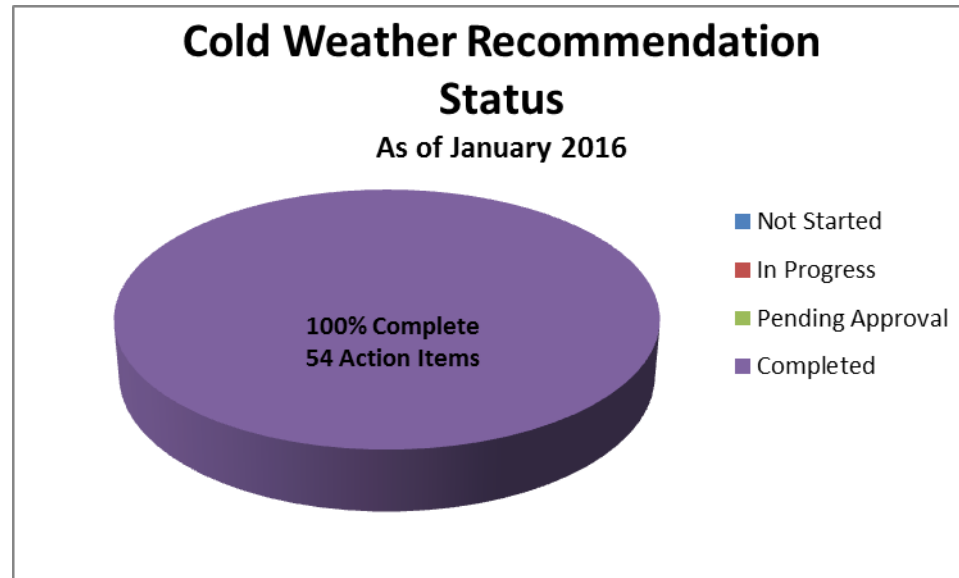


# Hot and Cold Weather Recommendation Status

Dave Souder  
Director - Operations Planning  
PJM Interconnection

January 2016  
Operating Committee  
Market Implementation Committee  
Joint System Operations Subcommittee Gen/ Trans  
MC Webinar

✓ All Cold Weather Action Items have been Completed

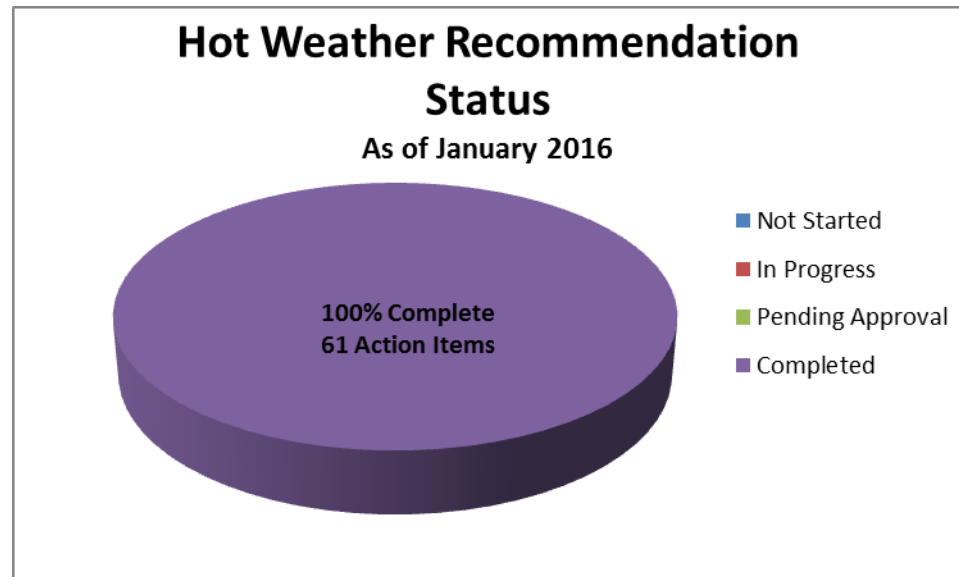




# Cold Weather Recommendation Status- Completed Items as of Last Update (June 2015)

| Topic                              | Status and Notes   | Description   |
|------------------------------------|--|---|
| Capacity Performance               | <p><b>COMPLETE:(for CW Rec. Tracking)</b><br/>           - FERC Order received on June 9, 2015.<br/> <i>The filing was submitted to FERC 12/12/14 with requested effective date 4/1/15. On 2/13/15 PJM submitted Answers to address certain of the protests and comments.</i><br/>           -PJM filed a request with the FERC on April 7, 2015, for a one-time waiver of its tariff to allow a short delay in the annual Reliability Pricing Model capacity auction for the 2018/2019 delivery year. April 24, 2015<br/>           - FERC issued an order granting waiver to allow PJM to delay its Reliability Pricing Model Base Residual Auction for the 2018/2019 delivery year to hold the BRA within 30 to 75 days after the Commission issues a order on its Capacity Performance filing, but no later than commencing on August 10, 2015. PJM will conduct the annual Reliability Pricing Model Base Residual Auction for the 2018/2019 delivery year the week of Aug. 10, 2015.<br/>           -On 4/10 PJM filed response to questions from the Federal Energy Regulatory Commission.<br/>           -On 5/13 PJM submitted answers to the protests and comments on PJM's response to FERC's deficiency letter in the Capacity Performance proceeding.<br/>           -On 6/10, the FERC approved PJM's CP proposal requiring a compliance filing by July 10.<br/>           - A Special Markets and Reliability Committee Meeting – Capacity Performance Manual 18 Revisions is scheduled for June 18, next training on 6/24<br/>           - FERC Order received on June 9, 2015.<br/>           - Capacity Performance workshop and reviews are in progress to support readiness for June 1, 2016</p> | <p>The Problem Definition: Need to refine the definition of capacity</p> <ul style="list-style-type: none"> <li>•Fuel security – dependable fuel source</li> <li>•Performance incentives and penalties</li> <li>•Capacity resources must be highly available for operations</li> <li>•Require flexible unit operational parameters</li> </ul>                                       |
| Regulation Market Rules            | <p><b>COMPLETE:</b><br/> <i>PJM is in the process of drafting a whitepaper to provide clarification and reasoning on the Regulation Market Rules enhancement recommendations. A problem statement focusing on Regulation D saturation and the impact to reliability was reviewed as a first read at the April OC and at the June 9 OC, the Regulation Performance Impacts group reviewed next steps and the group endorsed the problem statement focusing on operational issues. The MMU is planning to present another problem statement at hte June MRC which will take a more holistic approach.. The Regulation Market problem statement and issue charge was approved at the 7/23/15 MRC</i></p>  | <p>Reexamine the performance of the Regulation Market based on January results and consider:</p> <ul style="list-style-type: none"> <li>-Whether the division by the performance score is appropriate,</li> <li>-Whether the minimum participation requirements are adequately high enough</li> <li>-Whether going short on regulation during system peaks is acceptable</li> </ul> |
| Gas Infrastructure Future Adequacy | <p><b>COMPLETE:</b><br/>           The final report was accepted by DOE July 17.</p>   | <p>EIPC Gas-Electric System Interface Study includes four Targets:</p> <ol style="list-style-type: none"> <li>1. Baseline systems (Posted)</li> <li>2. Infrastructure capability (<del>October</del>) (1/30/15)</li> <li>3. Contingency analysis (<del>December</del>) (3/27/15)</li> <li>4. Dual-Fuel evaluation (<del>November</del>) (Released 12/14)</li> </ol>                 |

✓ All Hot Weather Action Items have been Completed





# Hot Weather Recommendation Status- Completed Items as of Last Update (June 2015)

| Topic                                   | Status and Notes  | Description   |
|---|---|---|
| Synchronized Reserves                   | <p><b>COMPLETE:</b><br/>The Instantaneous Reserve Check feature was installed in Production. IRC System Operator and Member Training is completed. Manual 12 revisions were endorsed at the November MRC Meeting.</p>   | <p>Review the current Instantaneous Reserve Check (IRC) mechanism for improvements; and identify methods for improving the quality of data being reported by GOs, including reinforcement through training.</p> <p>Improve current methods of providing PJM dispatchers with an accurate presentation of the available reserves on the system at any given time both at an aggregate level and unit-specific.</p> |
| PJM Cascading Outage Analysis Procedure | <p><b>COMPLETE:</b><br/>The feature was installed in Production. Training and process documentation have been completed</p>   | <p>Review PJM's Cascading Outage Analysis procedure and determine how it can be improved as well as automated.</p>  |
| Facility Limits                         | <p><b>COMPLETE:</b><br/>External reviews are complete. Impacted MISO facilities are noted on single line diagrams in the PJM EMS. External review with MISO and NYISO is complete.</p> <p>Language was approved and released on July 1, 2015 (M3 v. 47a)<br/>Load Dump Rating Methodology follow-up given at September, October and November SOS/OC meetings. PJM is working with TOs to develop a plan to submit revised ratings for impacted facilities in TERM in order for PJM Markets to run simulations to determine impact. PJM is working with TO on formalizing an implementation plan with a targeted completion date of 6/1/15. New manual language is under review at the SOS, OC, and MRC.</p> | <p>Review Facility limits with neighboring companies for pre- and post-contingency information.</p>   |
| Emergency Procedures Tool               | <p><b>COMPLETE:</b><br/>The Emergency Procedure application when live on 6/30 and included filtering by State<br/><del>EP refresh is slated for Q1 of 2015. Will only be filterable by State. County will not be possible until a future timeframe.</del> Parallel Ops for Emergency Procedure Tool Refresh is 3/2- 3/30. Switchover to new Emergency Application was successfully completed on 3/30. Filtering by State functionality will be available in the Emergency Procedures application scheduled for 6/30/15.</p>   | <p>Adding filtering capability to the electronic notification tool to allow PJM staff and stakeholders to determine the applicability of messages they receive.</p> <p>Work with SOS-T (or, capture from DIMA project) to acquire appropriate County/State level info for each Substation/Load in the EMS Model</p> <p>Conduct training for dispatch as needed</p>  |
| System Modeling                         | <p><b>COMPLETE:</b><br/>Report was posted on 4/30/15</p>  | <p>Update PJM's modeling processes and practices to include PJM's expectations of Transmissions Owners' input; as well the approach to implementing modelling and telemetry across the transmission and sub-transmission system.</p>  |