Adjustments to ORDC for Operator Actions
Data Analysis

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Real Time Market Operations
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Data Set

• Data set from January 01, 2016 through July 17, 2018
  – Units logged for out of market commitment reasons
    • Non-Market Facility
    • Voltage
  – Calculated total number of discrete hours a unit ran for the log reason
  – Calculated the percentage of total hours
  – Calculated the average eco min for all resources logged for the specific reason
### Out of Market Commitment Summary January 01, 2016 - July 17, 2018 (22296 Hours)

<table>
<thead>
<tr>
<th>Reason</th>
<th># Log Instances</th>
<th>Total Duration (Hours)</th>
<th>Percentage Of Discrete Hours</th>
<th>Average Eco Min (MW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Committed for Non Market Facility</td>
<td>535</td>
<td>2734</td>
<td>12.3</td>
<td>79</td>
</tr>
<tr>
<td>Voltage</td>
<td>281</td>
<td>722</td>
<td>3.2</td>
<td>35</td>
</tr>
</tbody>
</table>
Several complexities exist when adjusting the MRR for out of market commitments

- How many MWs should be added to the MRR?
  - 1 MW of energy <> 1 MW of reserves
- What time period should the MRR be adjusted?
  - If the uneconomic resource becomes economic do you remove the MRR adjustment?

These out of market commitments distort the market outcome

However, adjusting the MRR by an imprecise amount introduces further distortion which PJM does not recommend at this time