



## Problem/Opportunity Statement

### Outage Coordination

#### Opportunity Statement

Generation and transmission facility outages are required from time to time to complete preventive and corrective maintenance activities and to upgrade or enhance the capabilities of the system. In general, thousands of transmission outages are taken throughout the year to maintain and improve the reliability of the system. Generation outages throughout the year vary from a few thousand MWs during peak season to tens of thousands of MWs during shoulder maintenance season. Generation owners and transmission owners in PJM are required to submit/communicate outage requests in eDART for all outages in advance of the outage start date. The process and business rules for scheduling outages is memorialized in the PJM manuals as well as the PJM governing documents. PJM's outage planning processes ensure that facility outages do not have an adverse impact on the reliability of the system. Information about current and pending transmission outages is available on the PJM OASIS and in PJM's eDART tool to facilitate outage coordination and to inform market participants of system conditions that may impact PJM markets.

PJM believes there is merit to having further stakeholder dialogue around existing outage planning / coordination processes and how they can be improved. Enhancing outage coordination processes could reduce the number of outages taken, as well as expand awareness and potentially reduce the impact of outages. The following areas will be reviewed and discussed:

1. Education and review of current procedures for submitting, classifying (i.e. on-time, late), evaluating, approving and scheduling transmission and generation outage requests including study timelines, analytical activities (i.e. reliability studies, expected congestion studies) and adjustments to the submitted outages based on PJM's review.
2. Education and review of current procedures for submitting, evaluating and approving TERM tickets for transmission equipment ratings changes and as applicable the associated outage scheduling process to effect necessary repairs equipment to return it to its prior rating.
3. Review of outage planning / coordination processes required for RTEP project implementation. This effort will focus on projects that may require extended outages of existing facilities (e.g. transmission line rebuild projects).
4. Review of processes for coordinating outages. This will include coordination with other transmission owners, generation owners and adjacent systems or ISOs.
5. Education and review of transmission outage acceleration processes and metrics including
  - a. the current practice of reviewing outages that exceed 5 days and cause more than \$500K in congestion revenue inadequacy
  - b. the existing process for planned and forced outages as well as the potential of expanding the process to include facilities that may have a reduced rating due to a material condition issue
6. Transmission and generation outage assessments, transparency and available tools. Discussion of outage assessments will include reliability and congestion assessments for the PJM system and to the extent applicable a review of the impacts of neighboring region outages on the PJM system.

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