



Performance Assessment Hour Ramp Rate

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March 8, 2016

OC



Performance Assessment Hour (PAH) Ramp

PLS/
Unit-Specific



Real Time Values

Real Time



Unit Specific Adjustment Process

MIC



Conforming Changes to Manual 11 for Capacity Performance



Operating Parameter Definitions



Exceptions to PLS Process



Ramp Rate Inclusion Option Paths

Ramp Excluded

Ramp Rate Option Path

Ramp PLS

Status Quo (CP Order)

- Excused MW:
- Approved Planned / Maintenance Outage
 - Not Scheduled by PJM
 - Scheduled Down by PJM

Non-Performance Charge calculated from 'desired' non-ramp limited basepoint

Transitional Problem Statement

- Excused MW:
- Approved Planned / Maintenance Outage
 - Not Scheduled by PJM
 - Scheduled Down by PJM
 - **Following PJM Dispatch that includes ramp rate**

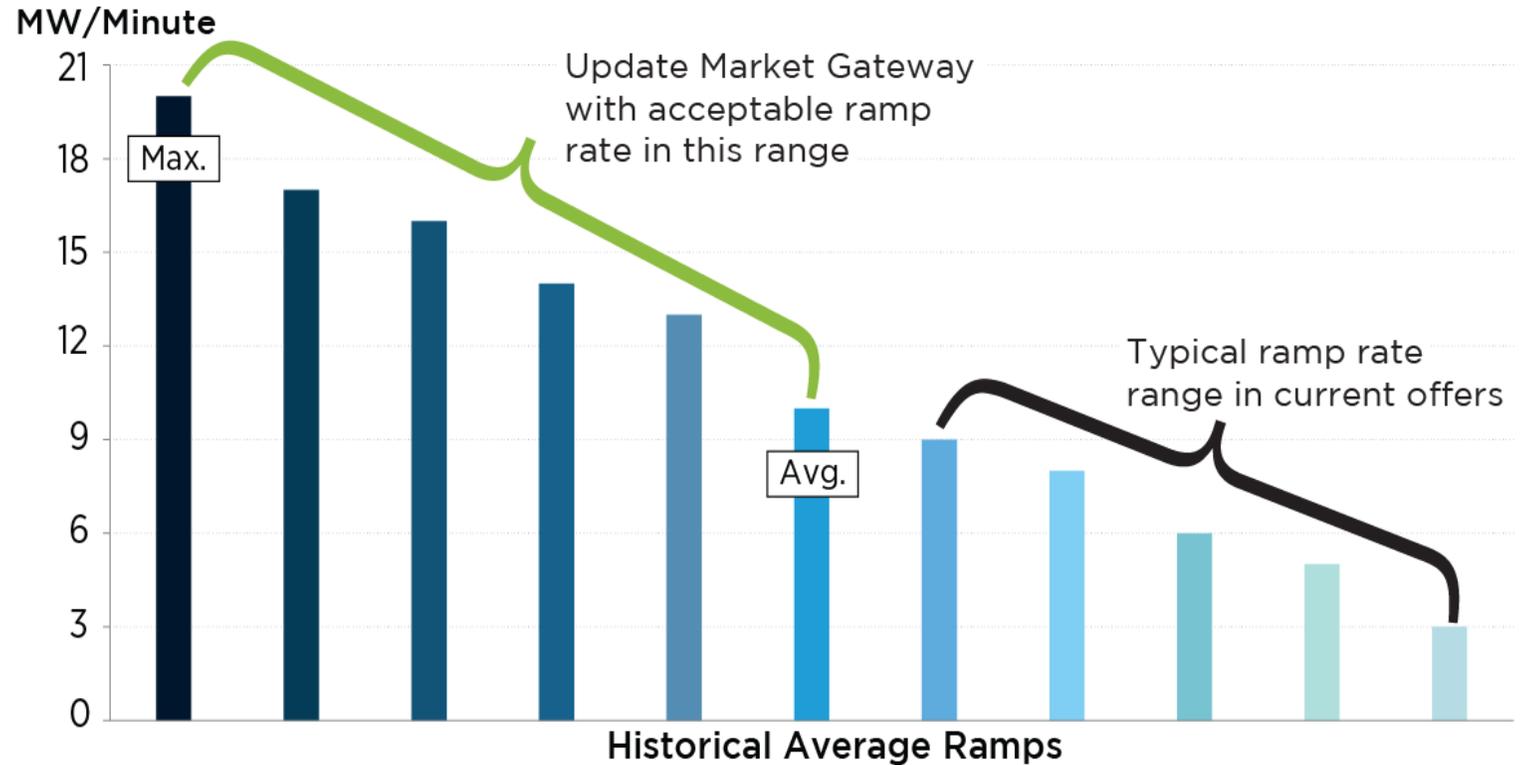
Non-Performance Charge calculated from ramp limited basepoint

Potential Long Term

- Excused MW:
- Approved Planned / Maintenance Outage
 - Not Scheduled by PJM
 - Scheduled Down by PJM
 - **Following PJM Dispatch that includes ramp rate**

Non-Performance Charge calculated from ramp limited basepoint

- Ramp or Segmented Ramp value established between the historical ramp/segmented ramp average and historical ramp/segmented ramp maximum based on the unit's actual ramp performance between January 1 and March 31, 2016. If the unit was not dispatched in that timeframe, then the three month span will be between June 1 – August 31, 2015. This value will be entered in Markets Gateway by the Market Seller and approved by PJM.
- PJM observed that many of the actual ramp rates from resources are faster than the inputted ramp rate values.
- The diagram to the right shows conceptually the range of ramp rate values that may be used as a PJM acceptable ramp rate.





Proposed PAH Ramp Rate Details

BEFORE JUNE 1

- Members will update their ramp rate values in Markets Gateway with a PJM acceptable ramp rate that is greater than the current ramp rate based on their individual assessment of their units' historical ramp performance between January 1 and March 31, 2016. If the unit was not dispatched in that timeframe, then the three month span will be between June 1 – August 31, 2015.
 - Capacity Performance – effective for the April 21 Operating Day (offers made on April 20)
 - Non-Capacity Performance – effective for the June 1 Operating Day (offers made on May 31)
- If a Member keeps its current bid-in ramp rate or inputs a slower ramp rate, the Member must provide documentation to PJM for justification.
- PJM will start to monitor the changes of inputted ramp rates for all resources starting March 1 through April 20
 - Capacity Performance - if a ramp rate is updated after April 20, the Member must notify PJM
 - Non-Capacity Performance – if a ramp rate is updated after June 1, the Member must notify PJM
- PJM, in conjunction with the IMM, will review the newly inputted ramp rates between April 21 and May 15 and ensure the ramp rate reflects the resource's recent operational history.
 - If agreement is not achieved, PJM will provide the value to be entered

AFTER JUNE 1

- When a Hot Weather/Cold Weather Alert is issued on that Operating Day, PJM will run a report comparing the current day's offer ramp rate to the April 21 Operating Day ramp rate
 - PJM will notify specific Members by Noon if a slower ramp rate is detected
 - After being notified, Members must provide documentation explaining the reduction (deadline TBD)
 - If PJM does not agree with the reduction, then PJM will assess Non-Performance Charges based on the 'desired' non-ramp limited basepoint
- Performance Shortfalls will be reduced if:
 - An acceptable ramp rate is approved by PJM; and
 - Resource is operating at or above its Economic Minimum

- First Read of OATT and M18
 - OC: February 24 - completed
 - MRC: February 25 - completed

- Endorsement of OATT and M18
 - OC: March 8
 - MRC: March 31
 - MC: March 31 (OATT only)

- OATT revision FERC Filing on April 1 with requested May 31 effective date