



# Manual Update for Regulation Requirement

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- Regulation Requirement is being updated to align with the regulation signal changes and requirement analysis from the RMISTF
  - Updates to Manual 12 Section 4.4.3 and Manual 11 Section 3.2.4
- Requirement will be defined as on-ramp and off-ramp periods to better capture system conditions
  - Current Requirement is defined as on-peak (0500 – 2359) and off-peak (0000- 0459)
- Effective MW requirement will be set to 800 effective MW on-ramp and 525 effective MW off-ramp
  - Current Requirement is 700 effective MW on-peak and 525 effective MW off-peak

### 4.4.3 Determining Regulation Assignment

The PJM RTO's Regulating Requirement is 525 effective MW during **off-peak off-ramp** hours ~~(0000 to 0459)~~ and **700 800** effective MW during **on-peak on-ramp** hours. ~~(0500 – 2359)~~. **The on-ramp and off-ramp period will be determined seasonally, based on system conditions, and posted on PJM.com at: <http://www.pjm.com/markets-and-operations/ancillary-services.aspx>.** PJM dispatch may increase or decrease the regulation requirements as needed to accommodate system conditions.

### 3.2.4 Regulation Requirement Determination

The total PJM Regulation Requirement for the PJM RTO is determined in whole MW for the ~~on-peak (0500 – 2359) and off-peak (0000 – 0459)~~ **on-ramp and off-ramp** periods of day. Further detail can be found in Manual 12, Section 4.4.3 Determining Regulation Assignment.

### 6.1.1 PJM Regulation Requirement

The total PJM Regulation Requirement for the PJM RTO is determined in whole MW for the ~~on-peak (0500 – 2359) and off-peak (0000 – 0459)~~ **on-ramp and off-ramp** periods each day. ~~The PJM RTO on-peak Regulation Requirement~~ **Further detail** is described in Manual 12 – Balancing Operations, Section 4.4.3 Determining Regulation Assignment.

- Fall: September 1 – November 30
  - On-Ramp (HE6 –HE8, HE18-HE24) 800MW; Off-Ramp 525MW
- Winter: December 1 – February 29
  - On-Ramp (HE5 –HE9, HE17-HE24) 800MW; Off-Ramp 525MW
- Spring: March 1 – May 31
  - On-Ramp(HE6 –HE8, HE18-HE24) 800MW; Off-Ramp 525MW
- Summer: June 1 – August 31
  - On-Ramp(HE6 –HE14, HE19-HE24) 800MW; Off-Ramp 525MW

- First Read
  - OC 12/13/16 (Manual 12)
  - MIC 12/14/16 (Manual 11)
  - MRC 12/22/16
- Information Only
  - SOS 12/21/16
- Endorsement
  - OC 01/10/17 (Manual 12)
  - MIC 01/11/17 (Manual 11)
  - MRC 01/26/17