

# Manual 12, Balancing Operations

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System Operations Subcommittee  
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## **Revision 58 (12/01/2026): Confirming Changes to Regulation Redesign Phase II**

- Revised language to accommodate two new market products, Regulation-Up and Regulation-Down in Sections 3.1.2, 3.1.3, 4.3 and 4.4.
- Updated definitions for Markets Database, Dispatch Management Tool and PI Vision in Section 2.1.2.
- Removed Resource Dispatching Exhibit and Regulation Assignment Exhibit as these exhibits are not relevant anymore.
- Updated PJM Member Interface Exhibit and Assigned Regulation Exhibit to accommodate RegUp and RegDn.
- Removed irrelevant sentence related to synchronized reserves and regulation in Section 4.1.2.

- Revised language to accommodate two new market products, Regulation-Up and Regulation-Down in Sections 3.1.2, 3.1.3, 4.3 and 4.4.

PJM calculates one Regulation signal, as shown by the PJM Regulation Signal Exhibit. The Regulation control signal is a combination of Regulation-Up (RegUp) and Regulation-Down (RegDn).

The following information is sent by PJM to the Generation Owners:

- Economic Limits
- Assigned Regulation megawatt (ARegUp and/or ARegDn)
- Spin awards
- Desired megawatt (economic basepoint)
- Regulation control signal

The following information is sent by the PJM Members to PJM:

- Actual PJM/external tie line megawatt
- Unit status and MW output
- Total assigned Regulation megawatt that is fleet based (TRegUp and/or TRegDn) (fleet)
- Total current Regulation megawatt that is fleet based (CRegUp and/or CRegDn) (fleet)
- Actual net interchange megawatt

### 4.3 Regulation

The PJM RTO is a single Balancing Authority Area consisting of multiple Control Zones. Resource owners providing Regulation are required to comply with standards and requirements of Regulation capability and dispatch, as described in this section.

PJM requires that all regulating generation resources be equipped with an Automatic Generator Control (AGC) scheme to receive, process and respond to a Regulation control signal that bifurcates into two market products, Regulation Up (RegUp) and Regulation Down (RegDn). Demand response resources providing Regulation must have a similar control system to accommodate RegUp and RegDn-

- Updated definitions for Markets Database, Dispatch Management Tool and PI Vision in Section 2.1.2.

#### 2.1.2 PC Applications

- Markets Database (MDB) —This database is used by ~~PJM Market Operations~~  
~~the Day-Ahead and Market-Based Regulation Systems~~. Market Participants update the MDB continuously via XML and Web-based interfaces.
- Dispatch Management Tool (DMT) — The DMT enables PJM dispatchers to manage resource information, transmission constraint information and administer the ~~ancillary service markets and operations~~  
~~Regulation Market~~. The DMT automatically logs resource status changes and provides an electronic source of logging information for Market Settlements.
- PI Vision – ~~Internet-based~~ ~~V~~visualization ~~system that tool utilized to~~ displays telemetered data.

- Removed Resource Dispatching Exhibit and Regulation Assignment Exhibit as these exhibits are not relevant anymore.

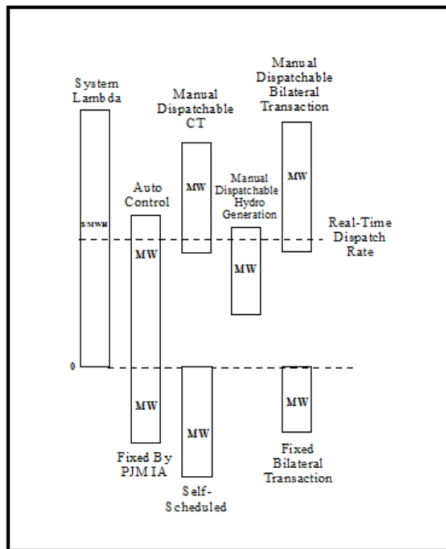


Exhibit 3: Resource-Dispatching

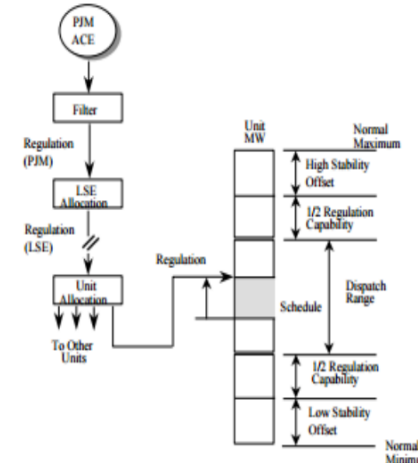


Exhibit 8: Regulation-Assignment

- Updated PJM Member Interface Exhibit and Assigned Regulation Exhibit to accommodate RegUp and RegDn.

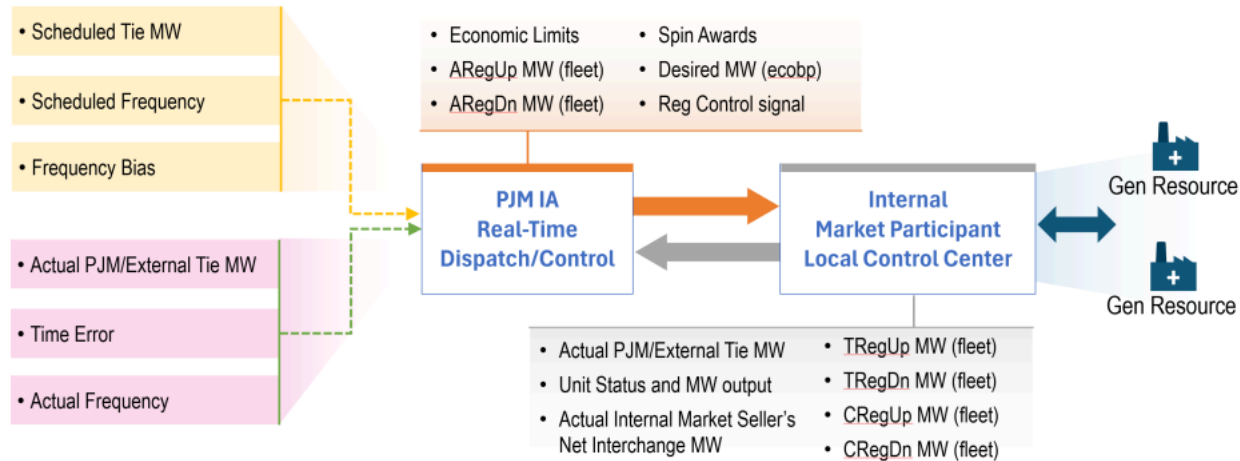


Exhibit 5: PJM Member Interface

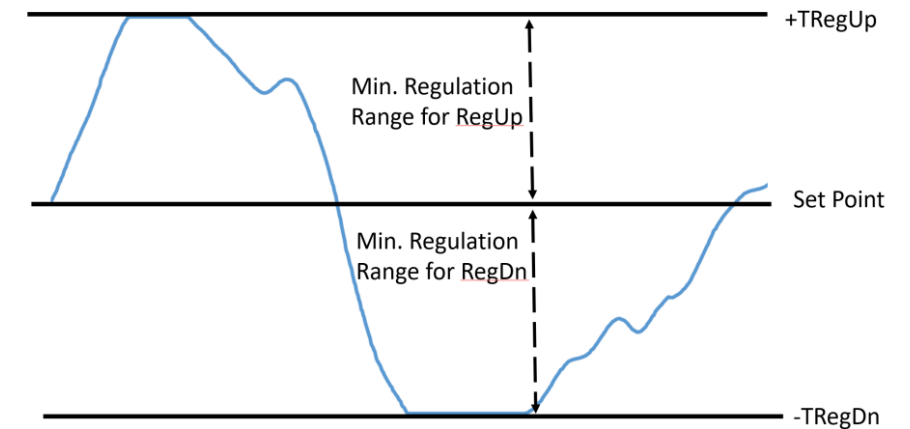
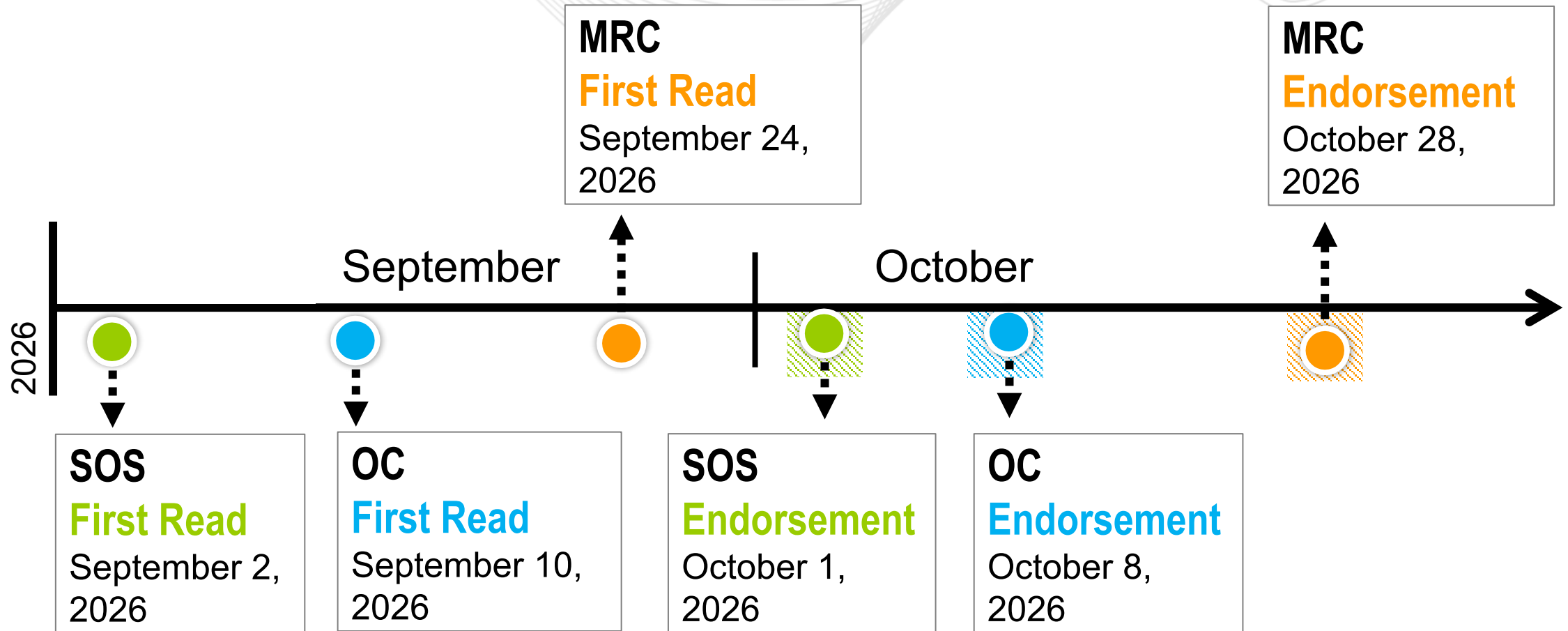


Exhibit 6: Assigned Regulation and Regulation Range Requirements

- Removed irrelevant sentence related to synchronized reserves and regulation in Section 4.1.2. Loading Reserves.

#### **PJM Members Actions**

- Resource owners that elect to use their assets to respond to an event shall, without regard to price and as quickly as possible, load the requested percentage of Synchronized Reserve and Non-Synchronized Reserve immediately after receiving either the PJM ICCP signal, DNP3 signal, or PJM All-Call Message. PJM Members responding to the event will continue to load resources until directed by the PJM dispatcher to discontinue. Resources currently providing Regulation service should remain on Regulation during Synchronized Reserves event. All other resources with no real-time Synchronized Reserve effective assignment should follow their dispatch/schedule or SCED basepoint. Resources providing Regulation service should only provide Synchronized Reserves to the extent that they can quickly resume accurate Regulation control following the event.
- Upon cancellation, the Generation Owner dispatchers unload the Synchronized and Non-Synchronized Reserve, as directed by the PJM dispatcher.



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**Manual 12, Rev 58 – Regulation Redesign Phase 2**



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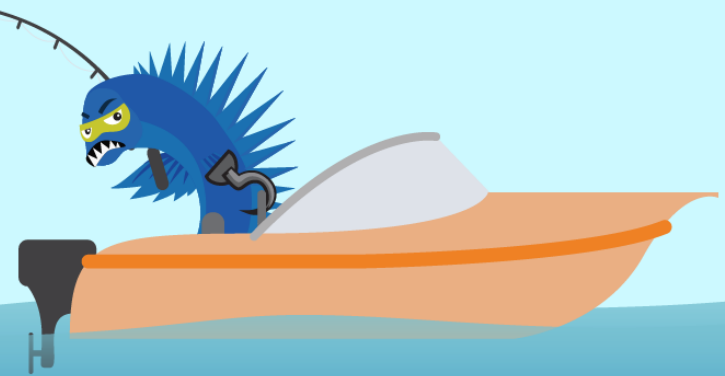
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Call (610) 666-2244 or email [it\\_ops\\_ctr\\_shift@pjm.com](mailto:it_ops_ctr_shift@pjm.com)