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# **Manual 03A, Rev. 20**

## **Energy Management System (EMS) Model Updates and Quality Assurance (QA)**

Eliseo Carrasco, Engineer II  
Power System Modeling Department  
Operating Committee  
June 15, 2021

- Periodic Review
- Compliance Reliance ACA Update
  - Updated Section 2.2 to clarify instructions for a Transmission Owner to add, remove, and/or convert a flow device and submit the associated ratings.

Manual 03A: Energy Management System Model Updates and Quality Assurance, [Revision 20](#)

# Section 2.2: Model Information and Data Requirements

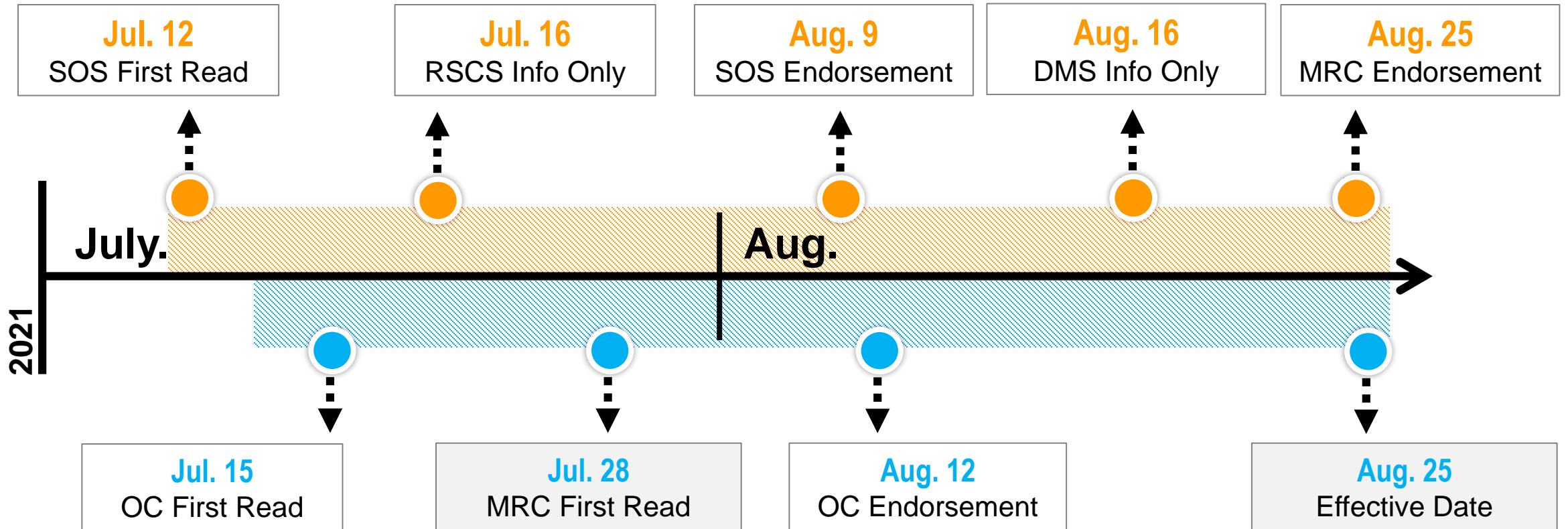
## 2.2 Model Information and Data Requirements

### Flow ~~Circuit Breakers (Flow CB)~~ Devices

A flow ~~breaker~~ device in the PJM EMS model is a representation of a flow disrupting element (i.e., circuit breaker, disconnect, air break, or similar elements) that has been set up to calculate a ~~SE State Estimator~~ flow across it and a thermal ratings ~~are is~~ also applied to that ~~flow~~ device ~~breaker~~, similar to a line or transformer. The ~~fFlow~~ device CB must be able to calculate net if gross output is available, or calculate gross output if net is available.

To change an existing PJM-modeled element ~~circuit breaker~~ to a ~~an~~ ~~fFlow~~ device CB, TOs must submit a Network Model ticket via <https://esuite.pjm.com/mui/> as part of the Model Build process. The ticket must clearly state if an ~~element~~ CB is being changed to a ~~fFlow~~ device CB, or if it is a brand new ~~flow device~~ CB. TOs must then provide ~~the Flow CB~~ equipment ratings via the ~~shall be provided in~~ TERM application through a similar process to line and transformer ratings updates.

# Manual 03A, Rev 20 Review / Approval Timeline



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**Manual 03A, Rev 20**



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