



M-03 Updates for Cut-In Process

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Operating Committee
November 02, 2023

- PJM must verify all necessary data has been submitted *and processed* and that all critical tasks for the ‘Cut-In Process’ have been completed prior to energization of a ticket marked ‘cut-in.’
- Critical Tasks Include
 - Monitored Priority
 - Ratings
 - Impedance
 - Telemetry (for tie-lines only)
- PJM will notify Transmission Owner at least 3 days before scheduled energization of critical tasks still requiring TO input

- If
 - The TO has been notified in the last 3 business days of PJM's need for data related to critical cut-in tasks, and
 - New data has not been submitted or existing parameters have not been verified *by 11:00 the day **before** energization*, and
 - Extending the outage is not expected to cause reliability concerns
- Then
 - PJM will extend the scheduled end time of the cut-in ticket by 1 business day
 - PJM will notify the TO via email of the extension of the outage which will include the information still required
 - PJM dispatch will not allow the return of the ticket before data has been submitted **and processed** (NOTE: If existing parameters do not require a change, this must be verified with OPD Cut-In staff, not through dispatch).

- In order to maintain reliability and monitor the system accurately per NERC Standards FAC-008 and FAC-011, PJM must have all proper parameters in place prior to energization of a 'cut-in' ticket
- PJM requires one business day to process and implement Monitored Priority, Ratings, Impedance, and Telemetry changes
- An 11:00 deadline is necessary in order to align expected transmission outages, topology, and operating parameters with the day-ahead market for optimum alignment with real-time.

4.2.3 Energizing New Facilities

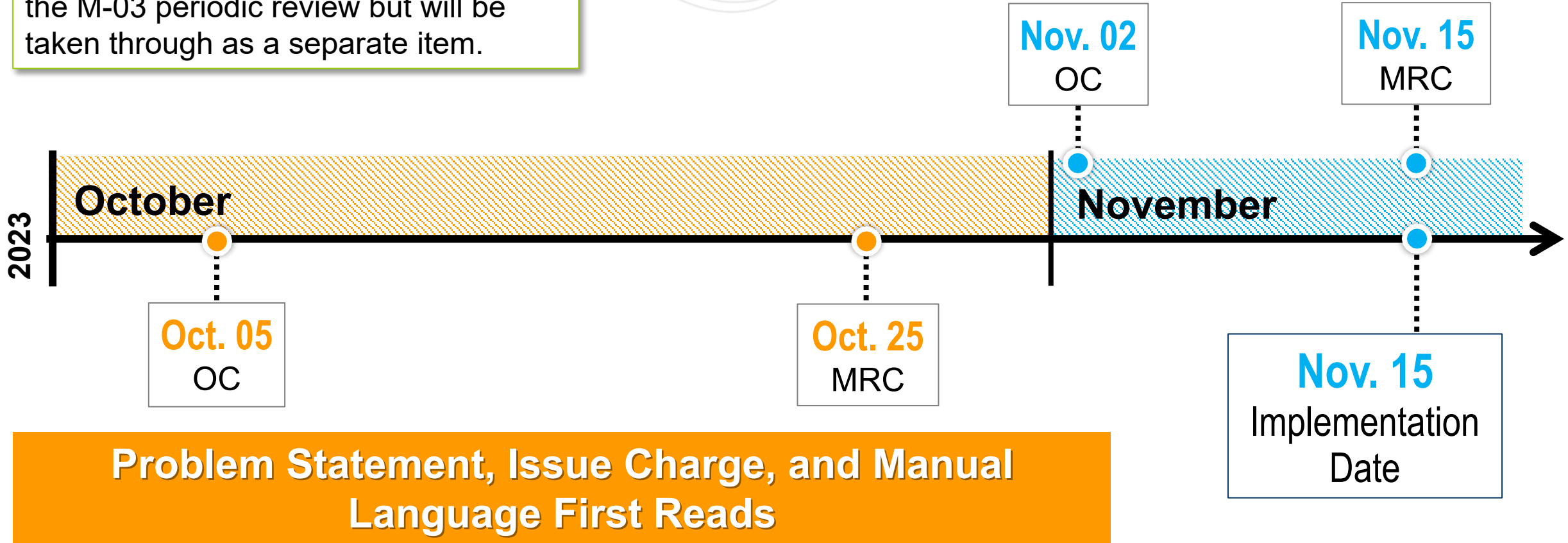
In order for PJM to properly model changes in system configuration, as much advanced notification as possible is required when a new facility, a reconfigured facility, is scheduled to be energized. This also includes a re-conductoring or equipment replacement that changes the impedance or rating of a facility. Transmission Owners must notify PJM of such changes by checking the Cut-In flag in the eDART outage ticket. This information should be submitted to PJM as far in advance as possible to ensure inclusion in the quarterly EMS model update but at minimum shall be consistent with the outage submittal rules. If energizing a new facility involves multiple outages in different periods, the Cut-In flag shall only be checked for the outage that upon completion will result in the energized facility. Once the ticket marked 'cut-in' is ready to energize, in order to maintain reliability and monitor the system accurately per NERC standards FAC-008 and FAC-011, PJM must have all parameters critical to the cut-in process (i.e. ratings, impedance etc.) in place. For this reason, new data must be submitted and implemented or existing parameters must be verified by 11:00 the day before scheduled energization. If this is not done, then PJM will extend the scheduled end time of the cut-in ticket by one business day as long as extending the outage is not expected to cause reliability concerns.

Attachment B

The following guidelines have been created in order to assist the Transmission Owner (TO) in determining if the 'cut-in' flag should be checked when submitting a transmission outage ticket in eDART. It is critical that this flag be used as intended to ensure all new and/or upgraded facilities/equipment are being accurately monitored and screened for in the PJM EMS. Once a ticket marked 'cut-in' is ready to energize, if new data has not been submitted and implemented or existing parameters have not been verified by 11:00 the day before scheduled energization, then PJM will extend the scheduled end time of the cut-in ticket by one business day as long as extending the outage is not expected to cause reliability concerns.

Problem Statement, Issue Charge, and Manual Language Endorsements

Note that this timeline coincides with the M-03 periodic review but will be taken through as a separate item.



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M-03 Updates for Cut-In Process



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Appendix

- A ‘cut-in’ ticket is defined as any scheduled work that, upon completion, results in a change to topology and/or operating parameters (i.e. line ratings, impedance) as a result of upgrades on the system.
- PJM ‘cut-in’ tickets generally fall into one of the following categories:
 - Any new branch (line, transformer, series device, phase shifter) or shunt that will affect PJM modeled topology.
 - Any reconfiguration (circuit breakers, disconnects, bus topology changes).
 - Any reconducted/upgraded equipment that will result in a different rating and/or impedance change when re-energized (i.e., CT/PT, wave trap).
 - Permanently retiring facilities (should be explicitly noted in description of work).
- Additional information regarding ‘cut-in’ ticket guidelines can be found in Manual-03 Attachment B.