

M-11 Revisions & OATT Attachment K

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Markets & Reliability Committee
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- In current market rule, hourly differentiated notification time can ONLY be used in Real-time market, not in Day-ahead market;
- With the implementation of RPF, generator's notification time has been an important input in determining generator reserve eligibility and reserve capability when the generator is offline;
- We have identified discrepancies between DA and RT on some unit's offline reserve eligibility and capability, because DA and RT used different notification times.
- In RCSTF, we proposed to allow DA to use hourly notification time in reserve clearing to align with RT. Stakeholder has approved this proposal.

- Below sections of M11 need update to allow DA to use hourly notification time for reserve clearing:
 - Section 2.3.7 Mechanical/Technical Rules
 - Section 9.1 Hourly Schedule Adjustments

2.3.7 Mechanical/Technical Rules

A valid generator offer consists of the following elements:

- Use startup & no-load switch, with a default value of yes (1).
- Hourly startup and no-load costs, with default values of zero.
 - External resources can only submit startup and no-load costs if the entire output of the resource is available for PJM dispatch.
- Condense available switch, with a default value of no (0).
- Ramp rate, with a default value of 9999 MW/minute.
- Hourly economic max/min and emergency max/min are the unit-level economic and emergency MW limits, respectively.
- Daily minimum down time and start times, with default values of zero.
- Daily minimum run time ~~and notification time~~ for the Day-ahead Market, with the ability to update the hourly values for use in Real-time commitment and dispatch. The default values will be zero.
- Daily notification time for Day-ahead energy commitment, with a default value of zero.
- Hourly notification times for use in Real-time commitment and dispatch, as well as for commitment of Non-Synchronized Reserve and 30-Minute Reserve in Day-ahead Market. The default values will be zero.

- Minimum Run Time
 - Hourly differentiated Minimum Run Time values are only considered for use during Real-time commitment and dispatch.
 - Minimum Run Time may not be updated for any hour that has received a commitment in the Day-ahead or Real-time Market.
- Notification Time
 - Hourly differentiated Notification Time values are **only** considered for use during Real-time commitment and dispatch.
 - **Hourly differentiated Notification Time values submitted before Day-ahead Market closes are considered for commitment of Non-Synchronized Reserve and 30-Minute Reserve in Day-ahead Market.**
- Ramp Rate
 - MW Limits
 - Following the close of the Day-ahead bidding window, no updates to the Ramp Rate MW Limits are permitted.
 - Ramp Rates
 - Hourly differentiated Ramp Rates may be updated for both committed and uncommitted hours.

OATT Attachement K Appendix Sec 1.10 –Scheduling & OA Schedule 1 Sec 1.10 – Scheduling

1.10.0B Offer Parameter Flexibility

(b) For generation resource offers, Market Sellers may vary for each clock hour during the entire Operating Day the following offer parameters: (1) cost-based Start-up Costs; (2) cost-based No-load Costs; (3) Incremental Energy Offer; (4) Economic Minimum and Economic Maximum; (5) emergency minimum MW and emergency maximum MW; (6) ramp rate; (7) Synchronized Reserve maximum MW; (8) Secondary Reserve maximum MW; and (9) for Real-time Offers only, (i) notification time and (ii) for uncommitted hours only, Minimum Run Time. Notwithstanding the foregoing, Market Sellers may vary the notification time for each clock hour for purposes of committing Non-Synchronized Reserve and 30-Minute Reserve in both the Day-ahead and Real-time reserve commitments.

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M11 Language Revision

**OATT Attachment K Appendix Sec
1.10 –Scheduling & OA Schedule 1
Sec 1.10 -Scheduling Revision**



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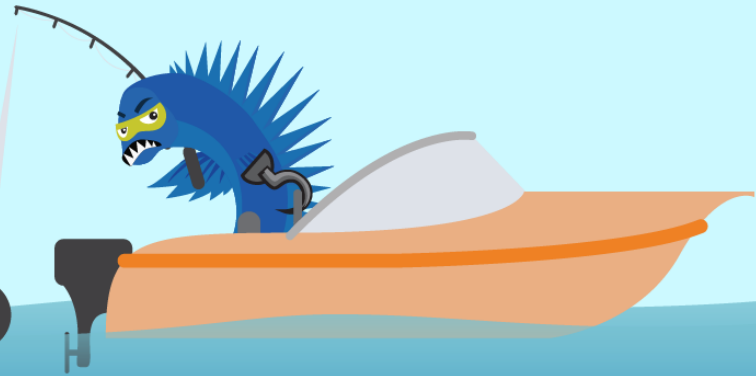
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