



# Hourly Notification Time in Day-Ahead Market Open Access Transmission Tariff, Operating Agreement and Manual 11 Revisions

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- In current market rules, hourly differentiated notification time can ONLY be used in Real-time market, not in Day-Ahead Market;
- With the implementation of Reserve Price Formation, 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 differences between Day-Ahead (DA) and Real-Time (RT) on some unit's offline reserve eligibility and capability, because DA and RT used different notification times.
- In Reserve Certainty Senior Task Force, we proposed the use of hourly notification time in DA reserve clearing to better align with RT reserve clearing.

- Updates to allow the Day Ahead Market to use hourly notification time for reserve clearing:
  - OATT Attachment K Appendix sec 1.10.9B
  - OA Schedule 1, section 1.10.9B
  - M-11
    - Section 2.3.7 Mechanical/Technical Rules
    - Section 9.1 Hourly Schedule Adjustments

## **Tariff, Attachment K-Appendix, sec 1.10.9B & Operating Agreement, Schedule 1, section 1.10.9B**

### **1.10.9B 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 of generation resources may vary the notification time for each clock hour for purposes of committing Non-Synchronized Reserve and offline Secondary Reserve in both the Day-ahead and Real-time reserve commitments.

### 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 offline Secondary Reserve in Day-ahead Market. The default values will be zero.



# M11 Revision: Section 9.1 Hourly Schedule Adjustments

- 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 offline Secondary 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.

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**OATT & OA Revisions**

**M11 Language Revision**



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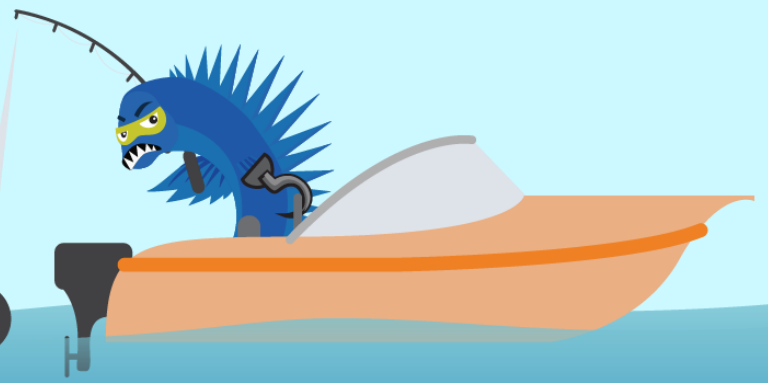


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