



# Manual 11 Biennial Cover to Cover Review Summary of Changes

Joseph Tutino  
Engineer, Real-Time Market Ops.  
Markets and Reliability Committee  
April 26, 2023

Action Required	Deadline	Who May Be Affected
<p>Communicate to Staff about Changes to Manual 11</p> 	<p>4/26</p> 	<p>Market Buyers, Market Sellers, CSPs</p> 

- Section 2.1.2 - Fast-Start Capable Adjustment Process
- Market Seller added back to sentence stating the mechanics of the review process to retain identical language with the Tariff/OA.

## 2.1.2 Fast-Start Capable Adjustment Process

The Market Seller of a resource not considered a Fast-Start Resource may ~~obtain~~ seek approval ~~for such resource~~ to be considered a Fast-Start Resource by submitting ~~to the Office of the Interconnection and the Market Monitoring Unit~~ a written request ~~to PJM and the Market Monitoring Unit (MMU)~~. ~~for approval and provide~~ The request must include documentation to support the resource's capability of operating with a notification time plus startup time of one hour or less and a Minimum Run Time of one hour or less or Minimum Down Time of one hour or less based on its operating characteristics, such as historical operating data showing the ability to provide energy upon an hour's notice.

~~The Office of the Interconnection~~ PJM, the Market Seller, and the ~~Market Monitoring Unit~~ MMU shall ~~will~~ review ~~in an open and transparent manner as between the Market Seller, the Market Monitoring Unit, and the Office of the Interconnection,~~ the information and documentation in support of the ~~request for approval for a resource to be a Fast-Start Resource~~ in an open and transparent manner. A Market Seller~~s~~ must submit ~~such a~~ the request, and supporting

Updated Clean and Redline PDF's from after Second Read are posted with the meeting materials.

- Section 2.3.3.1 - Capacity Resource Offer Rules
- Update to “or” between notification/startup times and removal of reference to minimum run time to conform language with the Tariff/OA.

## Current Language:

- Generation Capacity Resources that have notification, startup, and minimum run times that exceed twenty-four (24) hours must submit binding price-based offer prices for the next seven (7) days.

## New Revision:

- Generation Capacity Resources that have notification **or**, startup, ~~and minimum run~~ times that exceed twenty-four (24) hours must submit binding price-based offer prices for the next seven (7) days.

- Section 2.3.10 - Operating Parameter Definitions
- Revert to current language and bring back new proposed revision once it passes GDECS tariff update process.

## Current Language:

Minimum Run Time (hour) - The minimum number of hours a resource must run, in Real-time operations, from the time after the generator breaker closure which is typically indicated by telemetered or aggregated state estimator MWs greater than zero to the time of the generator breaker opening, as measured by PJM's state estimator. For Combined Cycle units this is the time period after the first combustion turbine generator breaker closure which is typically indicated by telemetered or aggregated state estimator MWs greater than zero and the last generator breaker opening as measured by PJM's state estimator.

## New Proposed Revision:

For combined cycle units, "Minimum Run Time" shall mean the time period **between** the first combustion turbine generator breaker closure, which is typically indicated by telemetered or aggregated State Estimator megawatts greater than zero **to the time of** the last generator breaker opening as measured by PJM's State Estimator.

- Additional Formatting Updates
- Changed all references except the first of “Market Monitoring Unit” to MMU for consistency.

- Grammar, Punctuation, Typo, Syntax Consistency, Reference Updates
- Updated Outdated Hyperlinks
- Addition of clarifying words and phrases
- Deletion of duplicate material
- Paragraph Spacing
- Change all references of “Office of the Interconnection” to “PJM”
- Remove outdated references to DASR
- Add references to SecR



## Section 2

- Added descriptor for Stability Limits at top of section
- Section 2.1.2 Reword of Fast-Start Capable Adjustment Process section
- Section 2.3.3.1: Clarification that run times consider notification **or** startup time
- Section 2.3.3.1: Additional detail about the maximum number of MW/Price segments allowed
- Section 2.3.4.2: Updated method to communicate Unit Specific Parameter Adjustments
- Section 2.3.6.2: Updated method to submit exception requests from the previously used template to Markets Gateway form and PJM Connect website
- Section 2.3.8: Clarification that Up-To Congestion Transactions are modeled in the RSC
- Section 2.5.2: Clarification that IT SCED has two hour look ahead period
- Section 2.14: Removed opening paragraph that is redundant from M28



## Section 4

- Section 4.7: Clarify submission time of Bilateral Reserve Transactions from 14:15 to 13:30

## Section 5

- Section 5.2: Remove outdated reference to “Transmission Outage Data System”
- Section 5.2.3: Rewrite of Load Forecasting Procedure to replace outdated information and detail updated processes
- Section 5.2.6: Addition of paragraphs to detail the objective of the SPD and RSC software packages
- Section 5.2.7.3: Additional language to clarify Composite Energy Offer adjustments and their relation to the OA

## Section 7

- Section 7.3.2: Additional detail about how RT SCED treats CTS transactions

## Section 9

- Section 9.1: Additional detail about Hourly State of Charge of an ESR

## Section 10

- Section 10.3: Updated language to “and/or” as defined by PJM for how location of a DSR is determined
- Section 10.4.2: Removal of Weather Sensitivity Adjustment from bulleted list detailing CBL notes

## Section 12

- Section 12.2.4: Deleted references to detail about Price-Demand curves in prior delivery years

## Attachments C and D

- Updated email alias used to submit supporting documentation

	MIC	MRC
First Read	2.8.2023	2.23.2023
Second Read		3.22.2023
Endorsement	3.8.2023	4.26.2023

Chair:

Stu Bresler,

[Stu.Bresler@pjm.com](mailto:Stu.Bresler@pjm.com)

Secretary:

Dave Anders,

[David.Anders@pjm.com](mailto:David.Anders@pjm.com)

Presenter:

Joseph Tutino,

[Joseph.Tutino@pjm.com](mailto:Joseph.Tutino@pjm.com)

## Manual 11 Biennial Cover to Cover Review



### Member Hotline

(610) 666 – 8980

(866) 400 – 8980

[custsvc@pjm.com](mailto:custsvc@pjm.com)

**PROTECT THE  
POWER GRID  
THINK BEFORE  
YOU CLICK!**



Be alert to  
malicious  
phishing emails.

**Report suspicious email activity to PJM.**  
(610) 666-2244 / [it\\_ops\\_ctr\\_shift@pjm.com](mailto:it_ops_ctr_shift@pjm.com)

