






Unit Specific Parameter Process DY 2020/21

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Action Required	Deadline	Who May Be Affected
Submit parameter adjustment request to unitspecificpls@pjm.com	2/28/2020	Capacity Market Sellers
Enter Soak Time Parameter Limits into Markets Gateway (optional)	N/A	Capacity Market Sellers







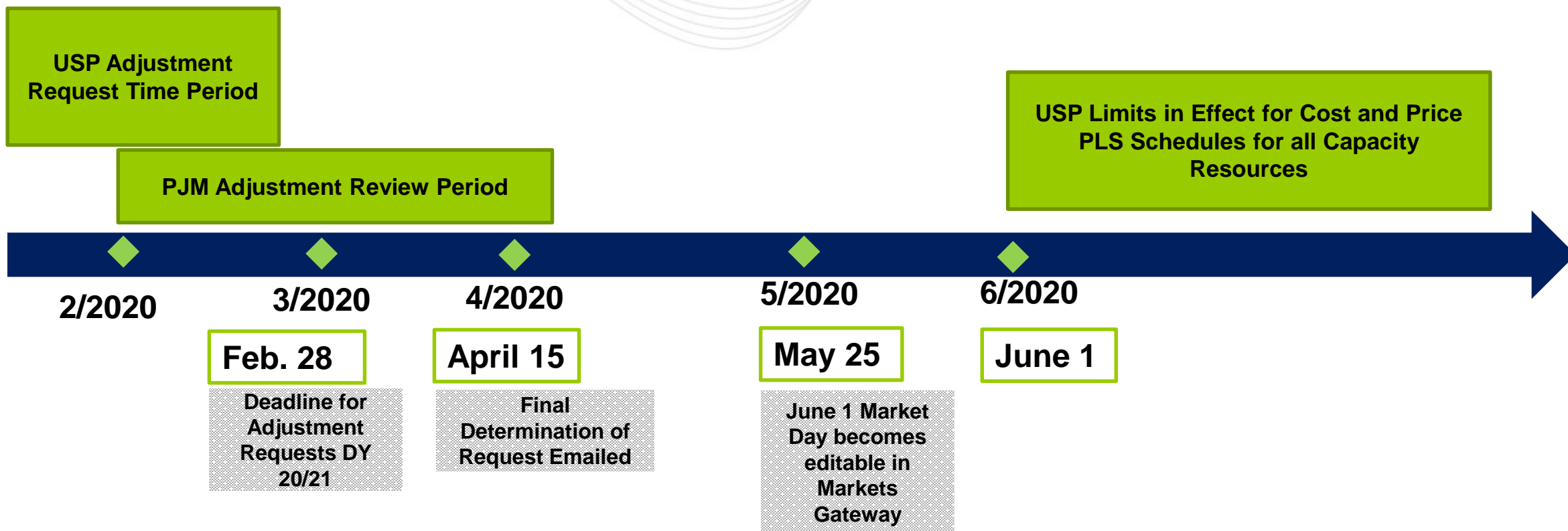
1. Unit specific parameters are applied to all Capacity resources
2. If the unit can not meet the proxy parameters due to an actual constraint, you may submit an adjustment request to unitspecificpls@pjm.com by February 28, 2020
3. Approved parameters will remain in place unless a change is communicated to PJM
 - Parameters which were approved and implemented in previous years do NOT have to be submitted each year

		Applicable Delivery Years					
		15/16	16/17	17/18	18/19	19/20	20/21+
Values	Default	Annual			Annual FRR Only		
	Unit Specific or Adjusted Unit Specific		CP	CP	CP Base	All Capacity Resources	All Capacity Resources 



DY 2020/21 Unit Specific Parameter (USP) Timeline

7 Weeks Remaining to Submit Parameter Adjustment Requests Until the Deadline



- Completed First Read of Issue Charge and Problem Statement at the December 5, 2019 MRC.
- Issue Charge endorsed at the December 19, 2019 MRC.
- MIC Special Sessions will begin late January 2020.

- Endorsement on soak time was deferred to the January 23, 2020 MRC.
- PJM's best estimate for implementation is June 1, 2022 for the 2022/2023 DY.

Appendix: Unit Specific Parameter Adjustment Process Reference Material

Reference Materials:

- **Process Overview-**
<http://www.pjm.com/~media/committeesgroups/committees/elc/postings/20150612-june-2015-capacity-performanceparameter-limitations-informational-posting.ashx>
- **Tariff-** OATT Attachment K Appendix Section 6.6
- **FAQs-**
<http://www.pjm.com/~media/committeesgroups/committees/elc/postings/20150715-cp-unit-specific-adjustment-requestfaqs.ashx>
- **Request Template-**
<http://www.pjm.com/~media/committeesgroups/committees/elc/postings/cp-unit-specific-adjustment-processtemplate.ashx>
- **Parameter Definitions-**
<http://www.pjm.com/~media/documents/manuals/m11.ashx>



Unit Specific Parameter and Process Overview

Unit Specific Operating Parameter Adjustment Process Details

Why was the process implemented?	PJM was directed by FERC in ER15-623-000, EL15-29-000, ER15-623-001 (CP Order) to implement unit specific parameter limitations for Generation Capacity Resources
What is the Unit Specific Operating Parameter Adjustment Process?	Capacity Market Sellers that do not believe their individual resources can meet the proxy operating parameters due to actual operating constraints may submit adjustment requests for the parameters for their cost based and price-based parameter limited schedules to the PJM team for review. The team includes IMM team members
What parameters are included in the unit specific operating parameter adjustments?	Turn Down Ratio, Minimum Down Time, Minimum Run Time, Maximum Daily Starts, Maximum Weekly Starts, *Hot Start, *Warm Start, *Cold Start, *Notification Time, and *Maximum Run Time <i>* Additional Parameters for Capacity Performance Resources</i>



Unit Specific Parameter and Process Overview

Unit Specific Operating Parameter Adjustment Process Details

Who should use the process?

- Capacity Performance resources for DY 2020/21 and Uncommitted Capacity Resources for DY 2020/21
- Replacement Capacity Performance resources for DY 2020/21
- Re-submitted adjustments for the same parameters if there is physical change or updated/changed information or documentation

What are adjustments used for?

- Make whole payments
- Do not excuse a unit for not performing during a Performance Assessment Interval

How long are the parameters effective for?

Parameters will remain in place until PJM determines a change is needed based on changed operational capabilities of the resource

When must adjustments be submitted by?

The requests must be submitted by the February 28 and will be evaluated by April 15 (prior to the applicable delivery year).

When are adjustments effective?

June 1 for the applicable delivery year

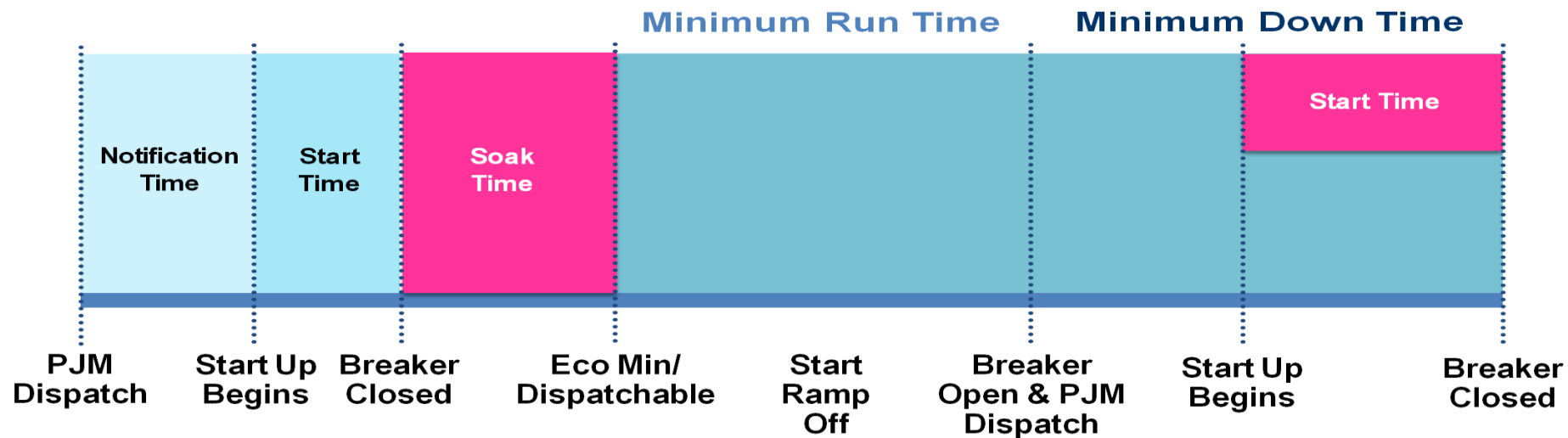
How do you submit adjustments?

Email requests in the template with documentation and data to unitspecificpls@pjm.com

DY 2020/21	Applicable Limits	Consideration of Price PLS in DA/Dispatch
Capacity Performance (RPM/FRR)	USP	All Year (during specified Emergency Actions*)
Uncommitted Capacity	USP	All Year (during specified Emergency Actions*)

*Refer to OATT, Attachment K Appendix, Sec 6.6 Minimum Generator Operating Parameters

Definition M11 Soak Time (Cold/Warm/Hot) - The minimum number of hours a unit must run, in real-time operations, from the time after generator breaker closure which is typically indicated by telemetered or aggregated state estimator MWs greater than zero to the time the unit is dispatchable. For Combined Cycle units this is the minimum number of hours from the time just after the first combustion turbine generator breaker closure which is typically indicated by telemetered or aggregated state estimator MWs greater than zero and the time the unit is dispatchable.



January 26, 2017 MRC: Tariff and Operating Agreement language approved at MRC

- Parameter Definition added to Manual 11
- Tariff, Section 1 and Operating Agreement, Section 1- Definitions
- Tariff, Attachment K-Appendix and Operating Agreement, Schedule 1
 - 1.10.1A Day-ahead Energy Market Scheduling
 - 3.2.3 Operating Reserves
 - 6.6 Minimum Operating Parameters – Parameter Limited Schedules

Q3 2018: Open text fields will be available in Markets Gateway on the Generator > Schedules > Detail screen.

- Values entered will be used for informational and awareness purposes only by Dispatch and DA Operators

Post 2020: Integration with Tools and Engine for scheduling and dispatching