

Regulation Redesign Phase 1 Implementation

Special Session of the

Market Implementation Committee

August 12, 2025

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PJM has made all efforts possible to accurately document all information in this presentation.

The information seen here **does not** supersede the PJM Operating Agreement or the PJM Tariff or any pending FERC filings or orders.



Regulation Redesign – Phase Implementation and Timeline



Phase 1 Go-Live Oct. 1, 2025 Phase 2 Go-Live
Oct. 1, 2026

2024

2025



Effective Oct. 1, 2025, several aspects to the PJM Regulation Market will change

Result of Regulation Market Design Senior Task Force

The intent of this special session is to:

Refresh understanding of new terminology and concepts.

Ensure awareness of business rule changes and impacts.

Create opportunity for clarifying questions.

Informing manual language is not part of this session – they are being presented already at the applicable stakeholder committee meetings.



Aug. 12

High-Level Summary of Changes

Signal and Telemetry Changes

Performance Metrics
Testing, performance scoring, mileage,
de-assignment

Markets Gateway

Data Miners

Sept. 5

Regulation Market Business Rules Changes

Offer data and clearing timing and Opportunity Cost calculation reform

Regulation Settlement

FAQ/Q&A



Phase 1 Summary of Changes

#	Design Components	Summary Description	
1	Signals and Products	Change from <i>two</i> signals (RegA and RegD) bidirectional to <i>one</i> signal bidirectional that all resources that are assigned Regulation in a given market interval will follow.	
2	Requirement MW	Changes to better reflect operational needs with consideration both to historic and future system conditions	
3	Performance Scoring	Change from accuracy, delay and precision to precision only.	
4	Offer and Clearing Timing	Eliminate "cost increase in VOM" except for Reg-only resources; change from hour clearing and commitment to 30-minute clearing and commitment.	
5	Opportunity Cost Calculation Reform	 Use the schedule the resource is running for energy or else the cheaper of available schedule for offline. Use tracking desired megawatt at LMP ramp rate limited. Use the area between LMP and the energy schedule the resource is running on. 	
6	Settlement	For the eligible resources, Settlement will calculate the shoulder interval opportunity cost for two five-minute ramp-in intervals before the resource Regulation operation and two five-minute ramp-out intervals following the resource Regulation operation (currently, three intervals ramp-in and three intervals ramp-out). Also, Settlement will update the calculation for the Regulation Mileage Credit (currently Performance Credit) such that the mileage ratio is equal to (Real-Time Regulation Mileage/Historic Regulation Mileage)	



Phase 1 Upcoming Milestones and Timeline

No.	Milestone	Timeline	
1	RegD resources conversion testing begins	June 2025	
2	All related manuals endorsement (Phase 1): M11, M12, M15, M28	August 2025 (September if needed)	
3	Special education session	Aug. 12/Sept. 5, 2025	
4	Markets Gateway Train (Sandbox) testing (continues)	September 2025	
5	Regulation Redesign Phase 1 market opens	Sept. 25, 2025	
6	Regulation Redesign Phase 1 go-live (cutover)	Oct. 1, 2025, at 00:00	

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Posted Documents for Phase 1 Changes

The following documents have been posted on the Ancillary Services page under a new section called **Regulation Redesign:**

Regulation Effective MW Requirement Definition (2025–2026) – PDF

Regulation Cost-Based Offer Validation Phase I – XLS

Self-Administered Regulation Test – XLS Regulation
Redesign Phase
1 FAQ – PDF

40-Minute Performance Score Template – XLSM XML Schema – XSD

PJM External Interface Specification Guide – PDF Regulation
Redesign Phase 1
FAQ – PDF

PJW.com > Warkets & Operations > Anciliary Services >





Inquiry	Email Contact	
To request a Regulation test	RegulationTesting@pjm.com	
Regulation telemetry – signal setup or conversion	PJMTelemetrySupport@pjm.com	
Regulation redesign questions	RegulationDesign@pjm.com	
Communication to PJM Member Relations	custsvc@pjm.com	



EMS Changes

Jeff Hoffman – Lead Engineer

EMS Support

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What Is Changing?

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EMS Regulation Design Changes

Design Change Summary

Changes Effective: Oct. 1, 2025

Signal Unification

Signals will be combined into a singular Regulation signal.

Regulation A & Regulation D → Regulation A

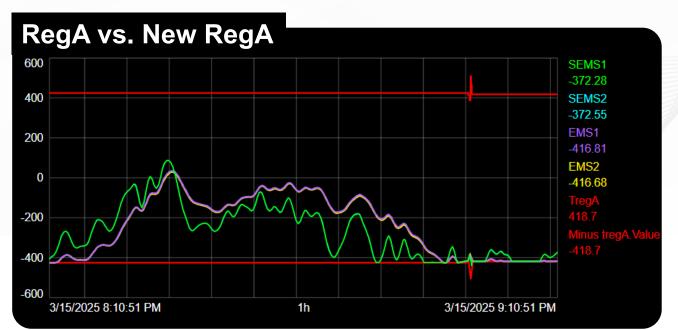
Newer Control Scan Interval for ACE Control

Old Regulation A: Slow Old Regulation D: Fast

Old Regulation A → New Regulation A

Faster than old RegA but slower than RegD

New test patterns installed for recertification of Regulation D resources for Regulation A.

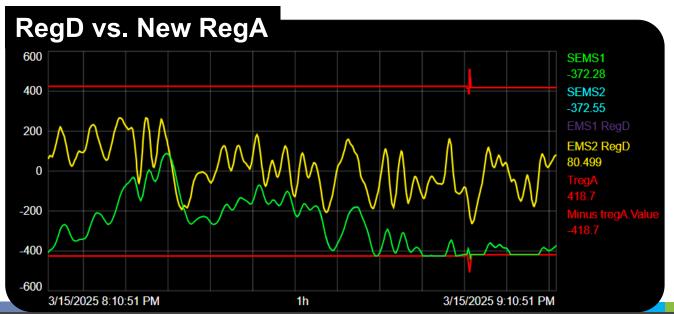


New RegA Comparison



New RegA

Old RegA



New RegA vs. Current RegD Signal:

New RegA

Current RegD



Signal Conversion Strategy

Fleets with:

1 RegA-only resources: No changes necessary for cutover

RegD-only resources: will need to add RegA control signals

- Use existing fleet; however, add new RegA fleet component signals:
 RegA Fleet: CREG(A), TREG(A), RegA | Unit Level: AREG(A)
- Resources will be instructed to perform work to switch and utilize signals on cutover day.
- Resources can still control under RegD up until cutover day on Oct. 1, 2025.

Resources participating in both RegA & RegD

- Resources can still control under RegD up until cutover day on Oct. 1, 2025.
- If fleet is RegA and RegD capable, but for resource that does not have unit AREG(A) signal, the member will have to perform work to add unit AREG(A) signal.

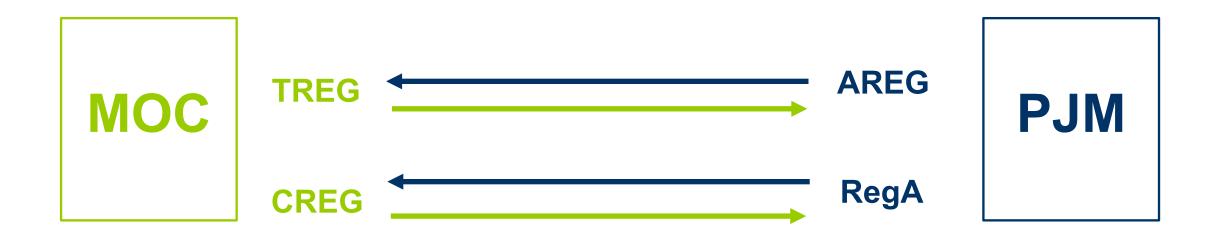




All RegD-only fleets will have RegA fleet telemetry points added to their link along with assigned Regulation (AREG) points for each unit.

All RegD resources will be made RegA resources in the interval average scoring application.

Resources will carry over their RegD average score to start at the market change.





Test Pattern Information

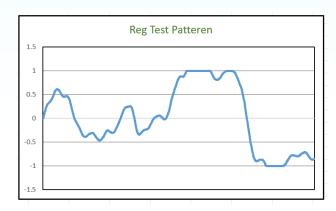
New Test Patterns
Made Available in
Production EMS on
June 1, 2025

Allows members to certify resources as new RegA resources with the new test pattern ahead of the Oct. 1, 2025, date

Members can access several resources under the "Regulation Redesign" section of PJM.com > Markets & Operations > Ancillary Services:

Regulation Redesign	Date
A Sample Normalize New Regulation Signal for One Day	7.16.2025
Markets Gateway: Regulation Redesign Phase 1 - Sandbox Virtual Session PDF	6.20.2025
XML Schema XSD	6.12.2025
Regulation Effective MW Requirement Definition (2025-2026) PDF	7.9.2025
Regulation Cost-Based Offer Validation Phase I	4.30.2025
Self-Administered Regulation Test XLS	4.30.2025
40-Minute Performance Score Template XLS	4.30.2025
PJM External Interface Specification Guide	4.25.2025

- Self-Administered Regulation Test
- A Sample Normalize New Regulation Signal





Members can utilize new signal resources (self-administered regulation test & sample normalized new regulation signal) to aid in RegA conversion preparedness.

 Self-administered regulation test does not count toward a formal resource recertification for RegD-only resources.

Member would need to request a PJM-administered regulation test through the RegulationTesting@pjm.com.

• If RegD-only resources do not complete the signal conversion test before Oct. 1, 2025, then they will need to recertify after the go-live in order to continue to participate in the Regulation Market.



Performance Score and Testing

Jeremy Rosser, Lead Analyst

Ilyana Dropkin, Sr. Engineer II

Performance Compliance

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Agenda			
Regulation Megawatt Requirements	Regulation De-Assignment		
Performance Scoring	Cost-Based Offer		
Rolling Average (Daily Score)	Regulation Testing		
Regulation Mileage	Regulation Testing for Phase I Transition		



Regulation Effective Megawatt Requirement Definition

Season	Dates	Hours Ending	Requirement MW
	Nov. 1–Feb. 28	HE 5-10, HE 17-24	750
Winter		HE 1, HE 11	650
		HE 2-4, HE 12-16	550
	March 1–April 30	HE 19–1, HE 6–9	750
Spring		HE 2, HE 10	650
		HE 3-5, HE 11-18	550
	May 1–Sept. 15	HE 5–1	750
Summer		HE 2	650
		HE 3–4	550
	Sept. 16–Oct. 31	HE 6–9, HE 18–24	750
Fall		HE 1, HE 10	650
		HE 2-5, HE 11-17	550

^{**}This requirement definition will be effective from Oct. 1,2025, until Oct. 31, 2026.

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Annual Review and Adjustment Process

Goal: Codify an annual review of system performance metrics and adjust requirement using seasonal hourly statistics from past year.

- The Regulation Requirement megawatts table will be reviewed annually in October at the Operating Committee meeting and posted on <u>PJM's website</u>.
 The adjusted values shall be effective from Nov. 1 of the current year through Oct. 31 of the following year.
- The selected control metrics used to determine requirement adjustment.

ACE Time Out of Bounds (TOB):

Time Net ACE spends "out of bounds"

Bounds set as 2*NERC L10 value for PJM (CPS2) (NERC BAL-001).

Regulation Utilization (RU):

Quantifies how PJM typically relied on Regulation during a period of time

BAAL Minutes (BAAL):

Reflects PJM's negative impact on system frequency Sum of BAAL minutes in the interval (NERC BAL-001)

Min/Max Deployment:

Time that Regulation is pegged in either direction

Quantifies severity of operational need during a period of time

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^{**}PJM Dispatch may adjust Regulation Requirements megawatt based on system conditions.



Performance Score Status Quo

1/3 Accuracy

The degree of relationship between control signal and regulating unit's response



1/3 Delay

The time delay between control signal and point of highest correlation from accuracy



1/3 Precision

The instantaneous error between the control signal and the regulating unit's response



Evaluates regulating unit response in following the AGC signal

$$Error = Avg \ of \ Abs \ \left| \frac{(Response - Regulation Signal)}{Hourly Average \ Regulation Signal} \right|$$

Precision Score =
$$1 - \frac{1}{n} \sum Abs(Error)$$



Performance Score Changes

Precision

The instantaneous error between the control signal and the regulating unit's response



Performance Score

Evaluates regulating unit response in following the AGC signal

$$Error = Avg \ of \ Abs \left(\frac{Abs(Response_{10sec} - Signal_{10sec})}{0.5 * IntervalSignal_{AvgAbs} + 0.5 * AREG} \right)$$

 $Performance\ Score\ _{Interval}$

$$=1-\frac{1}{n}\sum Abs(Error)$$

 $Interval Signal_{AvgAbs}$

$$= \frac{1}{n} \sum Abs(Signal)$$



Rolling Average (Daily Score) Changes

For the implementation on **Oct. 1, 2025**, the historic performance score will remain a 100-hour performance average.



Going forward, PJM will calculate the Regulation resource historic performance scores based on the new 30-minute commitment performance score rather than hourly commitment performance scores.

Historic performance scores will be calculated based on 200 30-minute intervals rather than 100 hours.



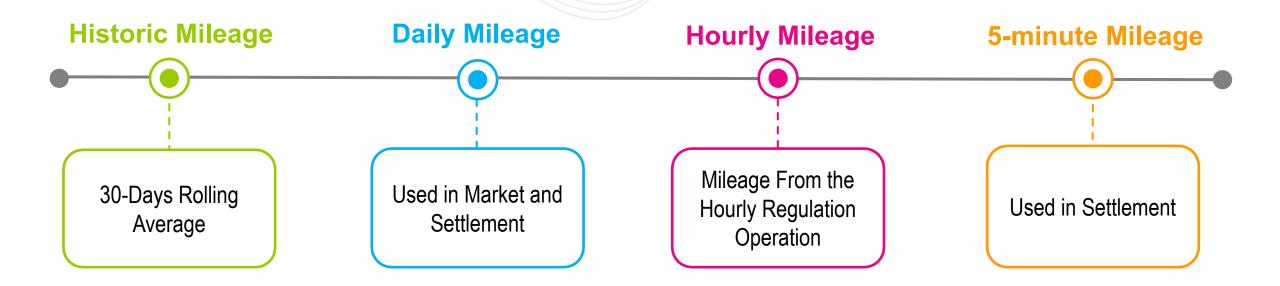
Regulation De-Assignment

Self de-assignment results in **zero** score for the remainder of the commitment period.

PJM dispatcher de-assignment does not impact performance score. For a PJM dispatcher de-assignment, the historic performance score will be used in the remainder of the period the resource is de-assigned.



Reg Mileage Represents the Movement of the Signal



RegD mileage calculation will be retired.





Effective Oct. 1, 2025, only the non-energy Regulation resource may include VOM in its offer.



ACTION ITEM: PJM will require that all the affected Regulation resources submit new offer prices in accordance with the new rules effective Oct. 1, 2025.

Refer to Manual 15, Section 2.8, Regulation Service, redline for more details.



Regulation Testing Changes

Reduce testing requirements for qualification.

- New resources will test two times (status quo: 3).
- Disqualified resources will test one time (status quo: 3).

Disqualified Resources

Change in Capability (MW)

Change in Communication
Path or EMS – Existing or
New Owner/MOC

New Resources

1 PJM-administered test

2 tests = 1 self-scheduled test + 1 PJM-administered test or 2 PJM-administered tests

New Performance Score of (an average of) PJM-Administered Test(s)

**Refer to Manual 12, Section 4.4, Qualifying Regulation Resources redline for more details.



Regulation Testing for Phase 1 Transition



ACTION ITEM: RegD-only resources must conduct a conversion test prior to **Sept. 22**, **2025**, to avoid disruptions to their participation in the Regulation Market.

- PJM will conduct the signal conversion test using the new Reg signal.
- Scoring of the signal conversion test will use the existing performance score calculation.
- The resource must test for the same megawatt capability or less than it was qualified for RegD.
- Resource owners must take the RegD-only resource testing for signal conversion out of the Regulation Market in the hour it is testing.
 The rest of the resources in the RegD-only fleet can continue participating in the Regulation Market during the signal conversion test.
- The resource owner will need to schedule a test for only one resource from the fleet.



ACTION ITEM: RegD-only resources must contact PJM Telemetry Support to update their points.

PJM will reuse the same RegA telemetry points for RegA-only resources and RegA/RegD dual-certified resources.



Signal Type and Testing Requirement

	No.	Status Quo (Pre Phase 1)	For Phase 1 Transition
Il Type and Testing Requirement	1	RegD signal and RegD resources participation in the Regulation Market	Effective Oct. 1, 2025, RegD signal and RegD-only resources participation in the Regulation Market will be terminated.
	2	RegD-only certified resources	To avoid disruption during Phase 1 transition on Oct. 1, 2025, RegD-only resources that want to continue to participate in the Regulation Market will need schedule signal conversion testing any time from June 1, 2025.
	3	RegA-only certified resources	No additional testing is required as new signal will use RegA signal path.
Signal '	4	RegA/RegD dual-certified resources	Effective Oct. 1, 2025, RegA/RegD dual-certified resources will continue on RegA signal only for continuous participation in the Regulation Market.

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Regulation Certified Megawatt

	No.	Status Quo (Pre Phase 1)	For Phase 1 Transition
ified MW	5	RegD-only certified resources	Effective Oct. 1, 2025, RegD-only resources that completed their signal path conversion test successfully will automatically carry forward their RegD certified MW as Reg Certified MW except if an uprate or derate MW test is requested.
Regulation Certified MW	6	RegA-only certified resources	RegA certified MW will automatically carry forward.
Regula	7	RegA/RegD dual-certified resources	Effective Oct. 1, 2025, RegA/RegD dual-certified resources will automatically carry forward the higher of RegA or RegD certified MW as Reg certified MW.

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Historic Performance Score

	No.	Status Quo (Pre Phase 1)	For Phase 1 Transition
Historic Performance Score	8	RegD-only certified resources	Effective Oct. 1, 2025, RegD-only resources that completed their signal path conversion test successfully will automatically carry forward their RegD historic performance score as Reg historic performance score.
	9	RegA-only certified resources	RegA historic performance score will automatically carry forward.
	10	RegA/RegD dual-certified resources	Effective Oct. 1, 2025, RegA/RegD dual-certified resources will automatically carry forward the higher of RegA or RegD historic performance score as Reg historic performance score.

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Markets Gateway Changes

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Markets Gateway Summary of Changes

#	Markets Gateway Screen	Summary Description
1	Demand Response > Regulation Market > Offers / Updates Generator > Regulation Market > Offers / Updates	On Offer page, removed column "Type" for A/D On Update page, merged, deleted and rearranged columns
2	Demand Response > Regulation Market > Offers Generator > Regulation Market > Offers	Changed Performance Offer Price to Mileage Offer Price Changed Performance Offer Cost to Mileage Offer Cost
3	Generator > Regulation Market > Offers	Removed VOM except for Regulation-only resources
4	Demand Response > Regulation Market > Updates Generator > Regulation Market > Updates	Changed Performance Offer Price to Mileage Offer Price Changed Performance Offer Cost to Mileage Offer Cost
5	Demand Response > Regulation Market > Availability Updates Generator > Regulation Market > Availability Updates	New screen to indicate availability status and self-schedule on a 30-minute granularity
6	Demand Response > Market Results > Regulation Award Generator > Market Results > Regulation Award	Changed Regulation Award page from hourly granularity to 30 minutes; deleted RegD columns
7	Public > Market Results Ancillary > Regulation Results	Changed Regulation Award page from hourly granularity to 30 minutes

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Offer Parameter Deadlines

Offer Type	Markets Gateway Location	Deadline To Update	
D :1 Off	Demand Response > Regulation Market > Offers	End of Rebid Period (14:15)	
Daily Offer	Generator > Regulation Market > Offers	the Day Before the Operating Day	
Hourly Undates	Demand Response > Regulation Markets > Updates	35 Minutes Prior to the	
Hourly Updates	Generator > Regulation Market > Updates	Operating Hour*	
30-Min. Availability (Regulation only)	Demand Response > Regulation Market > Availability Updates Generator > Regulation Market > Availability Updates	35 Minutes Prior to the Operating Period	
(Regulation only)	Generator > Regulation Market > Availability Updates	1 0	

^{*}Note: Hourly Regulation Capability Offer Price/Cost and Hourly Regulation Mileage Offer Price/Cost can only be updated intraday for resources that are opted in to Intraday Offers (IDO). If opted out of IDO, they may still be submitted prior to 14:15 the day before the Operating Day.



Sample ASO Case Execution, Posting and Target Intervals

Cases	Execution Time	Product Types	Markets Gateway Posting Deadline	Target Time (Begin)
ASO 00	12:30	Regulation & Reserves	12:50	13:00
ASO 30	13:00	Regulation Only	13:20	13:30
ASO 00	13:30	Regulation & Reserves	13:50	14:00
ASO 30	14:00	Regulation Only	14:20	14:30

Regulation and Reserves results notification of at least 10 minutes before the operating time

If ASO 30 is missed, All-Call must go out by hh:20 to extend the last Regulation assignment.

If ASO 00 is missed, All-Call must go out by hh:50 to extend the last Regulation and Inflexible Reserve assignment.

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Posted Technical Documents for Markets Gateway Changes

The following documents have been posted on the Markets Gateway documents page under a new section called **Regulation Redesign:**

PJM External Interface Specification Guide

XSD Schema

PJM.com > Markets & Operations > PJM Tools > Markets Gateway

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Data Miner 2 Changes



Data Miner 2 Feed Location: Ancillary Services > Regulation Market Data

#	Key Update Highlight	Description of Change				
1	Number of records increasing	Since ASO is moving from 60 mins. to 30 mins. duration, there will be 48 records per day instead of 24 records (except for DST).				
2	Records to return "null" The following will return null: REGD_SSMW, REGD_PROCURE, REGD_MILEAGE, REGA_HOURLY, REGD_HOURLY					
3	"RegA" column naming update to "Reg"	Update "RegA Self-scheduled eff. MW" to "Reg Self-scheduled eff. MW," "RegA pool procured eff. MW" to "Reg pool procured eff. MW," "RegA 30-day mileage" to "Reg 30-day mileage."				
4	4 Field description changes, noting retirements RegD Self-scheduled eff. MW, RegD pool procured eff. MW, RegD 30-day mileage, RegA hourly mileage will be updated to reflect – "This column is retired as of 10/1/2025"					
5	Field description changes, noting updates	Reg Self-scheduled eff. MW – "Self-Scheduled Regulation Effective MW" Reg pool procured eff. MW – "Pool Procured Regulation Effective MW" Reg 30-day mileage – "30-day average of Δ MW/MW for an ideal resource following the Regulation signal."				
6	CSV column name changes	Update "rega_ssmw" to "reg_ssmw," "rega_procure" to "reg_procure," "rega_mileage" to "reg_mileage"				



Data Miner 2 Feed Location: Ancillary Services > Regulation Prices

#	Key Update Highlight	Description of Change
1	Marginal benefits factor to be removed	Marginal benefits factor no longer used in new Regulation logic; column will be removed.
2	2 Update to "Performance Clearing Price" field name will update to "Performance Clearing Price." Clearing Price"	
CSV column name changes Update "reserve_quantity" to "regulation_quantity," "reserve_requirement" to "regulation_requirement," "performance_clearing_price" to "mileage_clearing_price Remove "marginal_benefits_factor" column.		"regulation_requirement," "performance_clearing_price" to "mileage_clearing_price."



Data Miner 2 Feed Location:

Ancillary Services > Real-Time Ancillary Service Market Results

#	Key Update Highlight	Description of Change					
1	Columns to return "null"	REGD MW and TIER1 MW to return "null"					
2	Field name changes	Jpdate "Regulation Performance Clearing Price" to "Regulation Mileage Clearing Price."					
3	Field description changes	Updates: Assigned MW – "Assigned Raw MW towards satisfying the requirement for the selected service and locale. Self-scheduled MW is included. This value is from the Dispatch Run." Self-scheduled MW – "Self-scheduled Raw MW. This is also included in the Assigned MW. This value is from the Dispatch Run." Tier 1 MW – "Incidental Reserve MW from qualified partially loaded online units. This value is from the Dispatch Run. This column is retired as of 10/1/2022." REGD MW – "Assigned Dynamic Regulation Raw MW towards satisfying the Regulation Requirement. This value is from the Dispatch Run. This column is retired as of 10/1/2025."					
4	CSV column name changes	Update "reg_pcp" to "reg_mil_cp."					



Data Miner 2 Feed Location:

Ancillary Services > Real-Time Ancillary Service Five-Minute LMPs Ancillary Services > Real-Time Ancillary Service Hourly LMPs

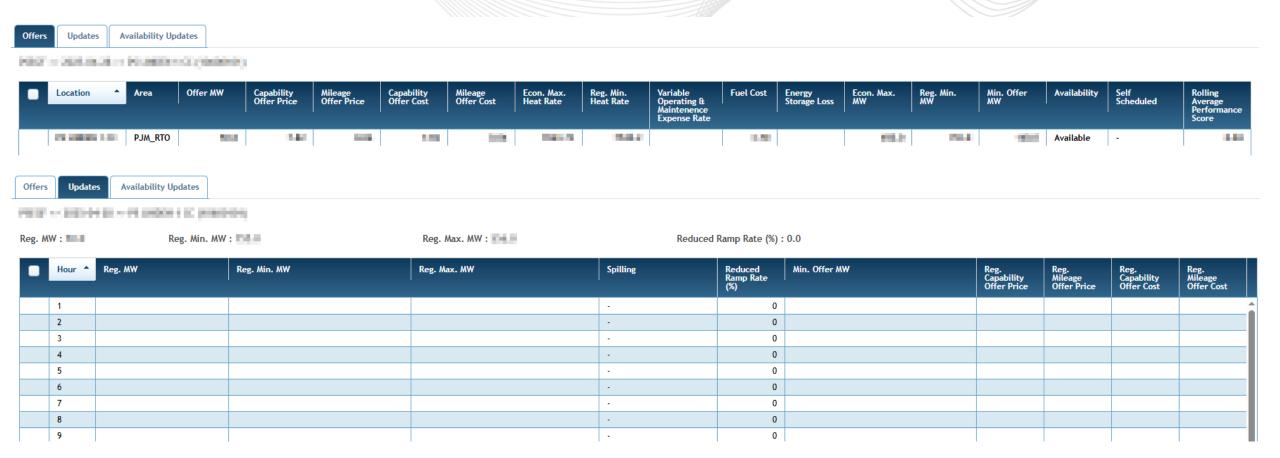
#	Key Update Highlight	Description of Change					
1	Data update	"RTO Regulation Performance" with type "Price" renamed to "RTO Regulation Mileage" "RTO Mileage Ratio" with type "Ratio" redefined to equal 5-Min Actual Mileage/Historical (Daily) Mileage					



Appendix: Markets Gateway Screenshots

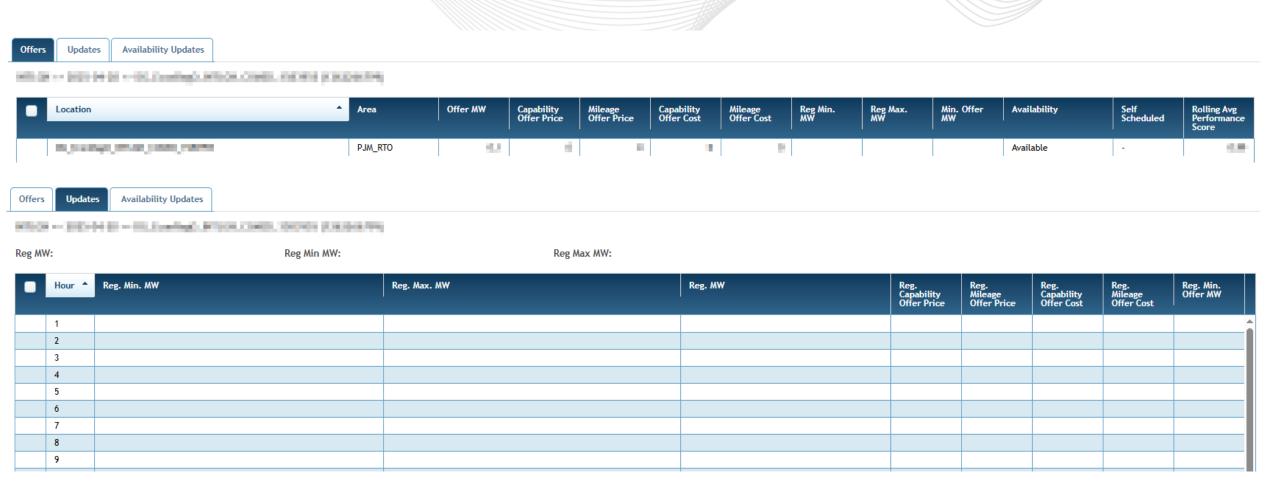


Generator > Regulation Market > Offers/Updates





Demand Response > Regulation Market > Offers/Updates



pjm

Demand Response > Regulation Market > Availability Updates
Generator > Regulation Market > Availability Updates

Offers	Updates	Availability Updates	
mar -	300000	- PERSONAL PROPERTY.	****

Reg Availability: Available

	Interval 🏝	Reg Availability	
	13:00		•
	13:30		
	14:00		
	14:30		
	15:00		
•	15:30	~	
	16:00		
	16:30	Not Available	
	17:00	Self Scheduled	
	17:30	Available	
	18:00		
	18:30		



Demand Response > Market Results > Regulation Award Generator > Market Results > Regulation Award

DA Energy Award Regulation Award DA Synchronized Reserve Award RT Synchronized Reserve Award DA Non-Synchronized Reserve Award DA Secondary Reserve Award RT Secondary Reserve Award

Interval ^	Location	Reg Offer MW	Self-Schedule MW	Reg Awarded MW	TPS Result	Reg Offer Price Used	Performance Score
Show all	F-107500111	Show all	Show all	Show all	Show all	Show all	Show all
00:30	18 DISPOSITION AND CO.	100	44	100	FAIL	1.0	
01:00	PURPORTER		18.4	100	PASS	1.00	
01:30	NEWSTREEN STREET		114	100	PASS	100	
02:00	#-040Y08Y83F40C	B.01	100	100	PASS	1.00	
02:30	18 1000100000.44 00	100	100			5.00	
03:00	THE PERSON NAMED IN				FAIL	100	
03:30	T SECTION S	800	100	10	FAIL	100	
04:00	PORTOR DE LA CONTRACTION DEL CONTRACTION DE LA C	18.8	44	100	PASS	100	
04:30	# OKONOMICO INC.		10.0	10.8	PASS	6.00	
05:00	APPROXIMATE OF THE PARTY OF THE	18.8	100	100	FAIL	10.00	
05:30	Properties 4 to		Hall .	8.0	PASS	100	
06:00	WINDSHIP OF THE PROPERTY OF TH	L)	1.0	1.0	PASS	5/80	
06:30	In commercial III	10.0	144	100	PASS	-	
07:00	WINDSHIP OF THE PROPERTY OF TH	8.8	10.0	1.0	PASS	4.00	
07:30	THE PERSON NAMED IN COLUMN 1	The state of the s	1.0	10.8	PASS	100	



Public > Market Results Ancillary > Regulation Results

Regulation Results

DA Synchronized Reserve Results

RT Synchronized Reserve Results

DA Primary Reserve Results

RT Primary Reserve Results

DA 30 Minute Reserve Results

RT 30 Minute Reserve Results

Active Subzone



Interval ^	Requirement	Reg. Self Scheduled Effective MW	Reg. Procured Effective MW	Total	Deficiency	RTO Average Performance Score	Reg. Mileage
Show all	Show all	Show all	Show all	Show all	Show all	Show all	Show all
00:30	76.0	100	200.0	100	0.0	4.00	ES 4
01:00	75.0	100	1984	764	0.0	4.00	4.6
01:30	- Marie	100	100.0	10.0	0.0	1,000	6.0
02:00	190.4	1000	800.0		0.0	10.00	10
02:30	Mar. a	9.0	700.0	700.0	0.0	100	1.5
03:00	198.2	10.0	900.0	Part	0.0	100000	1.6
03:30	36.5	100	1000	1900	0.0	0.0000	60
04:00	The state of the s	8.00	700.0	F000	0.0	4.00	4.5
04:30	700.0	100		1900	0.0	100000	6/1
05:00	The state of the s	18.8	*****	1983	0.0	0.00	1.3
05:30	760		-	178.8	0.0	0.0500	4.1
06:00	20.0	Delta .	2000	****	0.0	0.0002	1.5
06:30	76.3		76.5	900	0.0	1000	
07:00	THE	10.0	200	Time	0.0	11.885	5/1
07:30	1964	-	298.0	79.5	0.0	5	6/1



Chair:

Foluso Afelumo, Foluso.Afelumo@pjm.com

Secretary:

Stefan Starkov, Stefan.Starkov@pjm.com

Presenters/SMEs:

Michael Olaleye, Michael.Olaleye@pjm.com

Jeff Hoffman, Jeff.Hoffman@pjm.com

Ilyana Dropkin, Ilyana.Dropkin@pjm.com

Jeremy Rosser, Jeremy.Rosser@pjm.com

Damon Fereshetian, Damon.Fereshetian@pjm.com

Regulation Redesign Phase 1



Member Hotline

(610) 666 - 8980

(866) 400 - 8980

custsvc@pjm.com

