

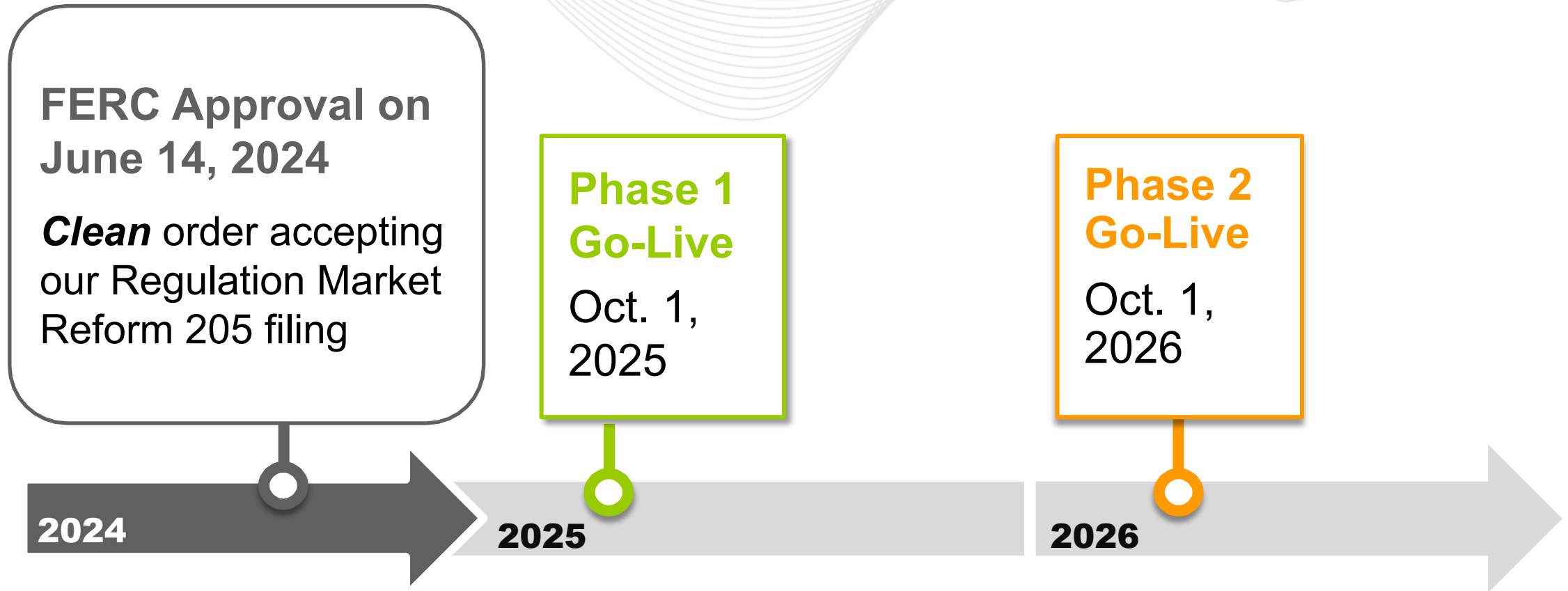
Regulation Redesign Phase 1 Timeline Update

Damon Fereshetian

Sr. Engineer, Real-Time Market Ops.

Market Implementation Committee

August 6, 2025



No.	Inquiry	Email Contact
1	To request a Regulation test	RegulationTesting@pjm.com
2	Regulation telemetry – signal setup or conversion	PJMTelemetrySupport@pjm.com
3	Regulation Redesign questions	RegulationDesign@pjm.com
4	Communication to PJM Member Relations	custsvc@pjm.com

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

[PJM.com > Markets & Operations > Ancillary Services >](#)

1. **Regulation Effective MW Requirement Definition (2025-2026) – PDF**
2. **Regulation Cost-Based Offer Validation Phase I – XLS**
3. **Self-Administered Regulation Test – XLS**
4. **40-Minute Performance Score Template – XLSM**
5. **XML Schema – XSD**
6. **PJM External Interface Specification Guide – PDF**
7. **Regulation Redesign Phase 1 FAQ – PDF**
8. **Markets Gateway: Regulation Redesign Phase 1 - Sandbox Virtual Session – PDF**

Manual 11 Regulation Redesign Summary of Changes

Joseph Tutino

Sr. Engineer, Real-Time Market Ops.

Market Implementation Committee

August 6, 2025





Adding Phase 1 Business Rules while preserving still relevant existing language



New organizational and section structure for Section 3 for better flow, order and joining of topics.



Added contextual information to address the most common questions encountered from the existing market and the redesign.

**Note: Similar reorganization effort to M11, Section 4 for Reserve Price Formation project*

The changes and additions to Manual 11, Section 3 are expansive, moving from 2 to 10 subsections and essentially creating a new section.

Our final product will be a more robust and organized description of the Regulation Market.

There is no traditional redline posted for Section 3 because with all the changes to the text and structure, the document would be unreadable compared to the existing version.

Changes to other sections are marked up compared to the existing version.

Please allow adequate time for review and bring forth any questions/comments as early as possible, preferably before the next stakeholder meeting via email.

Phase 1 of the Regulation Redesign results in major changes to the following areas affecting Manual 11:

ASO Engine Logic / One Signal <i>Offer, Clearing and Posting Timing</i>	Regulation Qualification, Disqualification and Requalification
Performance Scoring	Regulation Requirement MW
Regulation Offer Structure	Regulation Lost Opportunity Cost <i>New Tracking Ramp-Limited Desired Megawatt Concept</i>

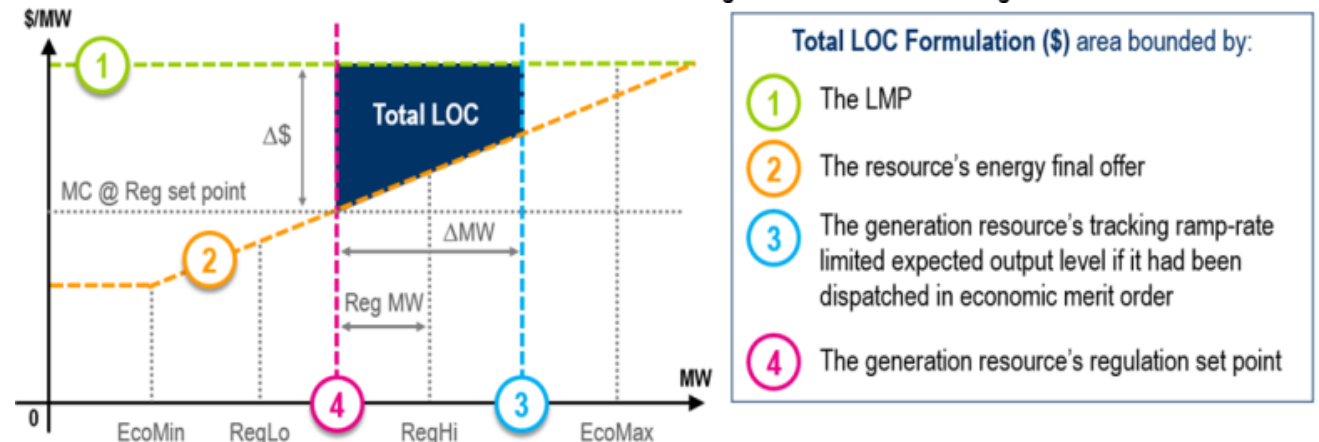
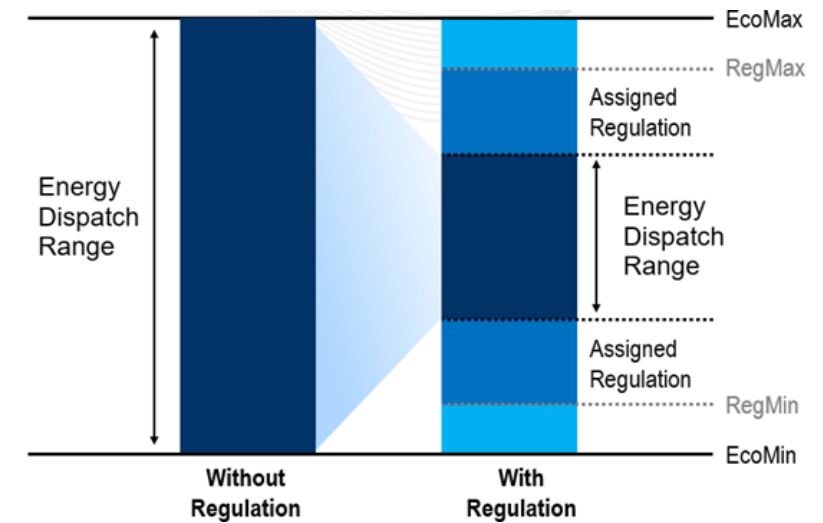
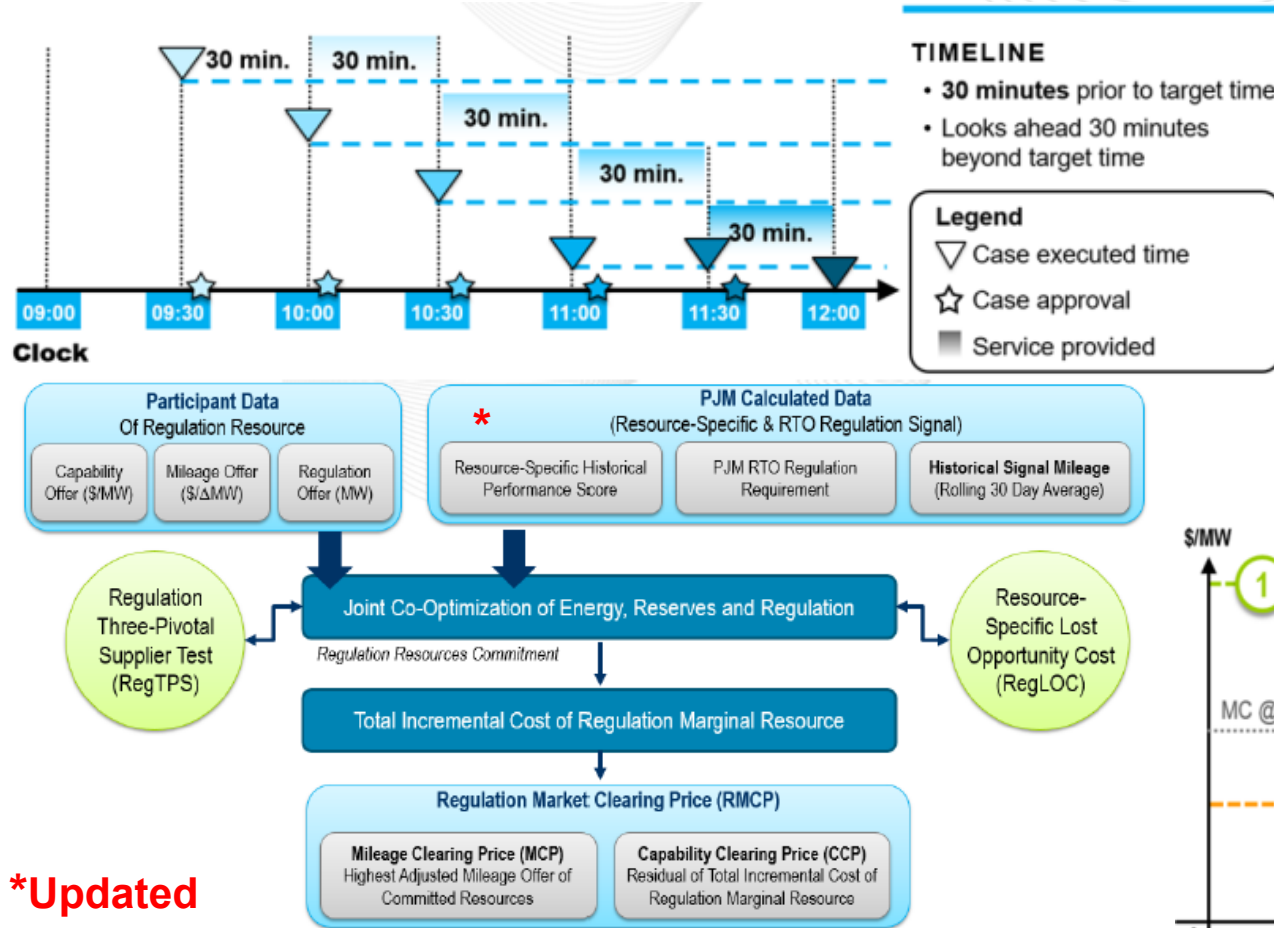
		Subsection #
Section 2	New Study Mode depiction graphic	2.5
	Language moving from 60- to 30-minute ASO run times	2.5.1
Section 4	Section reference update	4.4
	Language moving from 60- to 30-minute ASO run times with two cases per hour and with results typically posted 10 minutes prior	4.4.3
	Minor grammatical and clarification additions	4.4.3
Section 9	Non regulation-specific Hydro operation language moved out to new Scheduling section with minor grammatical updates	9.3

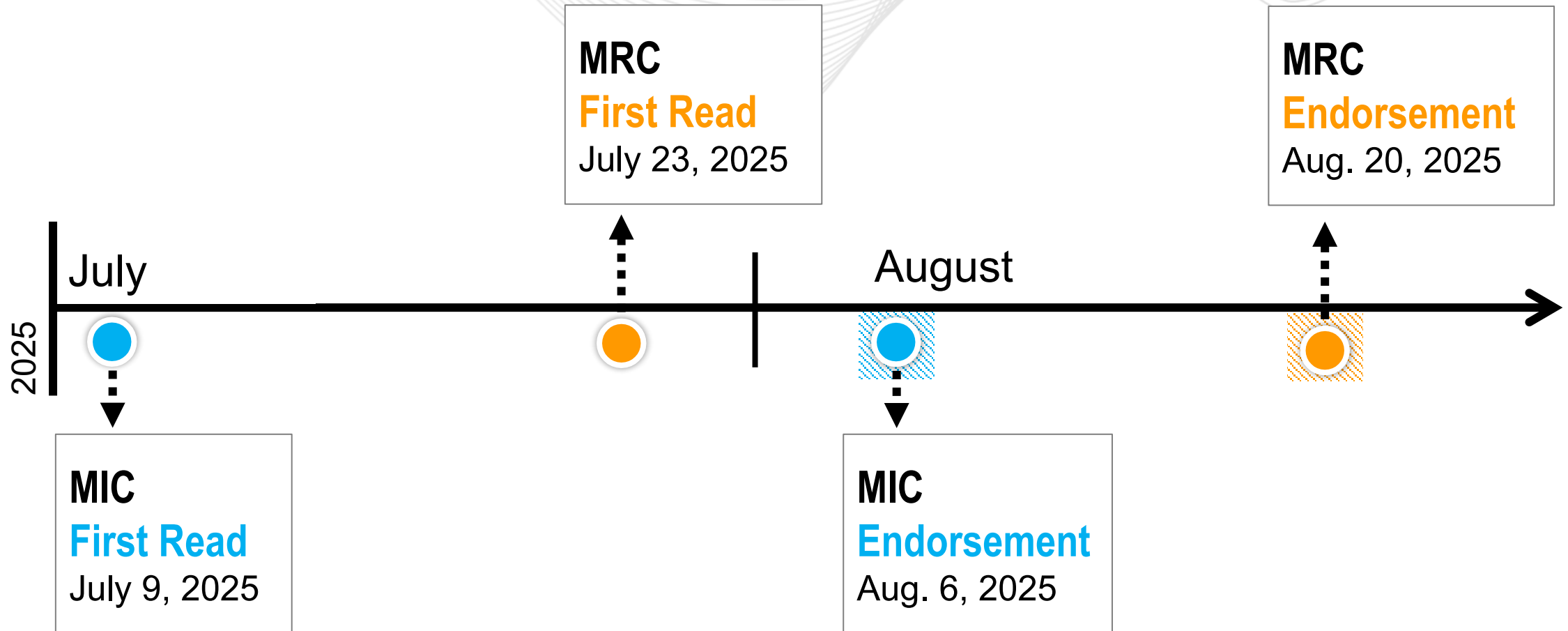
Section 3	Refreshed	New
3.1 Introduction to Regulation	X	
3.2 PJM Regulation Market Business Rules:	X	
3.2.1 Regulation Market Eligibility	X	
3.2.2 Regulation Qualification, Disqualification and Requalification		X
3.2.2.1 Performance Scoring		X
3.2.3 Regulation Market Data Timeline	X	
3.2.4 Regulation Offer Structure		X
3.2.5 Regulation Market Offer Period Timing	X	
3.2.6 Regulation Range Limits		X
3.2.7 Economic Load Response Participation		X
3.2.8 Ancillary Services Optimizer		X

Section 3	Refreshed	New
3.3 Regulation Requirements	X	
3.4 Regulation Market Power Mitigation	X	
3.5 Regulation Mileage		X
3.6 Regulation Lost Opportunity Cost	X	
3.6.1 General LOC Calculation	X	
3.6.2 Tracking Ramp-Limited Desired MW Concept		X
3.6.3 Hydro Opportunity Cost Calculation	X	
3.7 Regulation Market Clearing & Pricing (*Update to graphic on Page 15 since first read*)	X	
3.7.1 Regulation Offer Price Conversion and Validation		X
3.7.2 Regulation Offer MW Conversion and Validation		X
3.7.3 Regulation Self-Scheduling		X
3.7.4 Regulation Clearing of Offline Resources		X
3.7.5 Regulation Clearing and Posting Timing	X	
3.7.6 Regulation Pricing		X

Section 3	Refreshed	New
3.8 Regulation Market Operations	X	
3.8.1 Regulation Dispatch and Reduced Energy Ramp Rate	X	
3.8.2 Self and PJM Deassignments		X
3.8.3 Intra-Interval Manual Assignments	X	
3.8.4 Unapproved or Missing Intervals		X
3.9 Regulation Obligation Fulfillment	X	
3.9.1 Regulation Bilateral Transactions	X	
3.10 Regulation Settlements	X	

- New graphics to depict clearing engine interaction, data timeline/flow, range limits, ASO timing, general/hydro LOC, and adjusted offer formulas.





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Presenter:

Joseph Tutino,
Joseph.Tutino@pjm.com

Manual 11 Regulation Redesign Phase 1

A green speech bubble containing a white question mark, positioned above a blue speech bubble with three horizontal lines, indicating a question or contact point.

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Member Hotline

(610) 666-8980

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