

FTR Credit Enhancements

Bridgid Cummings Credit Markets & Reliability Committee July 26, 2018



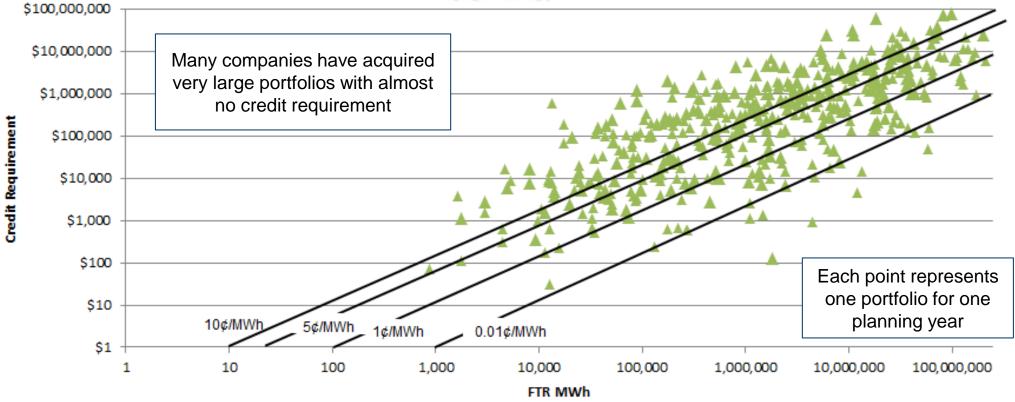
FTR Credit Risk Issue

- FTR positions, even some very large positions, may have little or no credit requirement
- Proposed Solution: Implement a per-MWh minimum credit requirement



FTR Credit Risk Exposure

Total FTR MWh versus Credit Requirement by Planning Period Annual Buy Obligations Only



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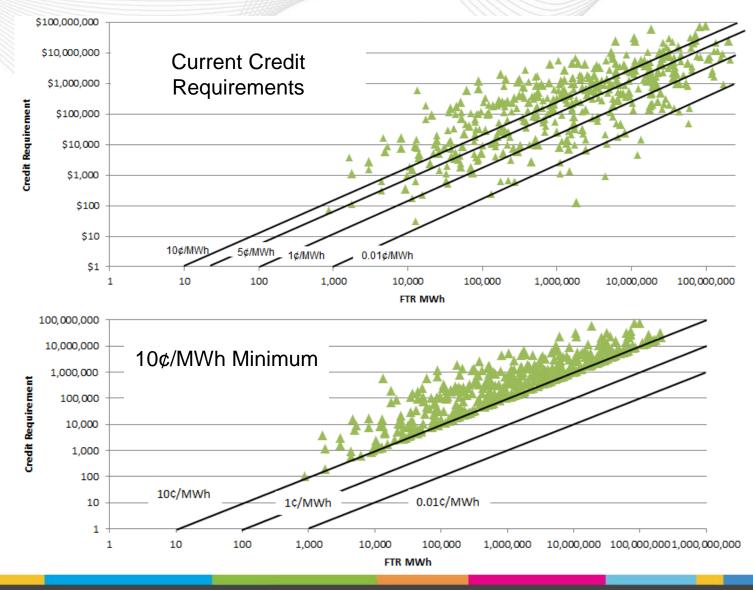


Proposal Consideration

- Proposal with 95% Support at the MIC:
 - Implement a 10¢/MWh minimum monthly credit requirement applicable to both FTR bids submitted in auctions and cleared positions held in FTR portfolios
 - 92% Support over the Status Quo
 - 80% Support at the Credit Subcommittee



- Each dot represents one portfolio's FTR Annual Auction position for Buy Obligations Only
- Current requirements allow portfolios (even large ones) to have effectively no credit requirement (less than \$.0001/MWh in this historical analysis)
- A 10¢/MWh monthly minimum assures that all portfolios have at least a modest credit requirement





- Target implementation October 2018 effective date September 3, 2018
- Applied to existing positions and all future FTR activity
- Transition plan for members who experience an increase to credit requirements for existing portfolios upon implementation of the Per-MWh proposal:
 - Synchronized with existing transition plan from the spring 2018 FTR credit change for Transmission Upgrades
 - With further restriction to only sell existing FTR positions, either through FTR auctions or bilaterally, provided that the sale lowers the credit requirement
 - Expires spring 2019



Next Steps

- Stakeholder Timeline
 - Credit Subcommittee
 - Market Implementation Committee
 - Markets and Reliability Committee
 - Markets and Reliability Committee
 - Members Committee
 - FERC Filing

First Read

Poll

- Endorsement
- First Read Endorsement
- Endorsement

- June 11, 2018
- June 6, 2018 July 11, 2018
- June 21, 2018 July 26, 2018
- July 26, 2018
- July 31, 2018

Target Implementation Effective Date

October September 3, 2018



Appendix



• Current FTR Credit Requirements are calculated monthly as:

 Σ_{FTR} (FTR cost - FTR Historical Value)

+ Undiversified Adder (if any)

- ARR Credits (if any)
- For <u>cleared</u> FTRs, negative individual requirements net against positive requirements within the same month
- Positive monthly subtotals sum to the total FTR Credit Requirement



Example of Per-MWh Minimum

	Small Portfolio	Large Portfolio
A MWh in portfolio	500,000	5,000,000
 Path-based portfolio credit requirement (including sales profits/losses) 	\$100,000	\$100,000
C Undiversified adder	\$0	\$20,000
D Total credit requirement for FTRs (B+C)	\$100,000	\$120,000
E Per-MWh Minimum (A * 10¢)	\$50,000	\$500,000
F Greater of D and E	\$100,000	\$500,000
G ARR Credits	\$(20,000)	\$(20,000)
H Final FTR Credit Requirement (F+G)	\$80,000	\$480,000



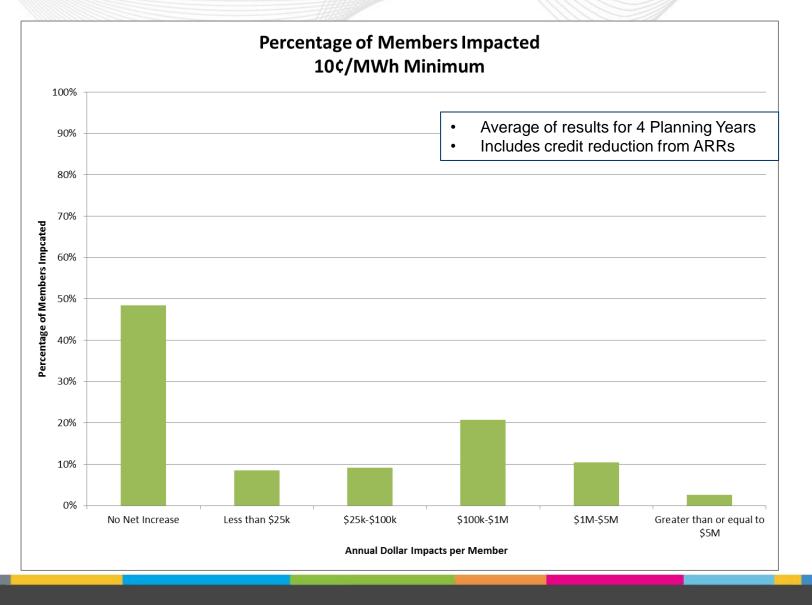
- MWh for FTRs of "Self-Scheduled" trade type will be included in the per-MWh calculation
 - But ARR credits will provide an offset
- MWh for FTRs of "Sell" trade type will be netted against MWh for "Buy" trade types once the auction is cleared
 - During the bid period, MWh for "Sell" trade types will be set to zero



- Minimum requirements will, by definition, increase credit requirements, but only for members with current low requirements relative to their FTR volume
- PJM analyzed the impact of the per-MWh proposal using four years of historical data on Annual Buy Obligations
 - Planning years 13/14, 14/15, 15/16, 16/17



- Almost half of PJM's FTR participants would see no impact from a per-MWh minimum
- Many more would have a small impact





 The dollar impact of a per-MWh minimum is concentrated in a few Participants with very large portfolios

