

Fuel Cost Policy

Bhavana Keshavamurthy Markets and Reliability Committee January 23, 2020



Fuel Cost Policy Impacts

Action Required	Deadline	Who May Be Affected
Communicate proposed changes to the Fuel Cost Policy process and penalty calculations	2/20/2020	Market Sellers
	10	





Based on a few years of experience with the Fuel Cost Policy (FCP) process, there are opportunities for potential improvements to the rules and processes governing Fuel Cost Policies.



Key Work Activities in PS/IC

- □ KWA#3: Explore potential enhancements to Fuel Cost Policy rules. Initial review suggests the following categories for enhancements to PJM's fuel cost policies:
 - Requirement for zero marginal cost offer units (e.g., wind and solar) to have Fuel Cost Policies;
 - □ Requirement for self-scheduled units to have Fuel Cost Policies;
 - Need for Market Sellers, on an annual basis, to confirm that their annual Fuel Cost Policy remains compliant;
 - Lack of a penalty exemption and/or safe harbor for minor violations in a Market Sellers' Fuel Cost Policy, and/or lack of appropriate crediting mechanism for a market-seller's self-report of a potential Fuel Cost Policy violation.



December MIC Voting Results

- Main Motion: Joint Stakeholder
 - Endorsement: 87%
- Alternate Motion: PJM ICC
 - Endorsement: 81%



Summary of Packages

Proposed Changes				
	Main and Alternate Motion			
Remove FCP annual review	X			
Remove FCP requirement for zero marginal cost offer units	X			
Remove Market Seller submission deadlines	X			
Refine PJM/IMM review deadlines	X			



Summary of Packages

Proposed Changes

	Main and Alternate Motions		
Remove Revocation Language	Х		
Allow PJM to expire approved FCPs	X		
Temporary Fuel Cost Policy	Х		
Safe Harbor Provision	X		
Penalty Calculation Components			
Market Seller Identified Error Factor (E)	0.25		
Market Impact Factor (I)	1 or 0.10		
Average Hourly LMP	Across duration of non-compliant offer		
Average Hourly Available MW	Across duration of non-compliant offer		
Market Impact Evaluation Period	Across duration of non-compliant offer		



Difference in Packages - Impact Factor Criteria

Joint Stakeholder

Full penalty (impact factor of 1) if:

- Unit clears DA or runs RT on cost-based offers AND paid DA/Balancing operating reserves
- Or, unit fails TPS test for constraints
- Or, cost offer is above \$1,000/MWh

PJM ICC

Full penalty (impact factor of 1) if:

- Unit clears DA or runs RT on cost-based offers AND is either
 - Paid DA/Balancing operating reserves or
 - Marginal in DA or RT on its cost based offer
- Or, unit fails TPS test for constraints
 - Unless unit running on price-based schedule due to passing the TPS test at the time of commitment
- Or, cost offer is above \$1,000/MWh

Next Steps

	MRC	MC
First Read	1.23.2020	
Endorsement	2.20.2020*	3.26.2020**

* **Note:** 'Page turn' review of manual and tariff changes prior to the MRC vote is scheduled for the MIC Special Session: Fuel Cost Policy on 1.29.2020

** **Note**: Manual 15 – Cost Development requires Members Committee endorsement and Board of Managers approval in accordance with Operating Agreement Schedule 2



Appendix



- Removal of the Fuel Cost Policy Annual Review
- Removal of Fuel Cost Policy Requirement for zero marginal cost offer units
- Removal of Market Seller Submission Deadlines
- Refining the PJM/IMM Review Deadlines
- Addition of Safe Harbor provision to cover deviation from Fuel Cost Policy due to force majeure



- Removal of Revocation Language
- Addition of expiration of approved Fuel Cost Policies due to change in circumstance
- Addition of Temporary Fuel Cost Policy
- Changes to Penalty Calculations
 - Addition of Market Seller Identified Error Factor to account for self report by Market Seller
 - Addition of Market Impact Factor
 - Modification to MW and LMP variables of equation



- Same as Joint Stakeholder Proposal except for Penalty Calculation
 - A unit that is marginal in Day Ahead Market or Real Time Market on its cost based offer will have the Impact Factor of 1
 - A unit committed on its price based schedule that later fails TPS test during its minimum run time or hours of its DA commitment would not have an Impact Factor of 1 unless other criteria are met



Status Quo Penalty Calculation

Σ Penaltydh = min (d, 15) x LMPh x MWh 20

where:

- d (days) = 1, if Market Seller corrects non-compliant offer after notification from PJM or the IMM
- LMP*h* = Average hourly LMP on last day of non-compliant offer
- MWh = Average hourly available MW on last day of non-compliant offer



Joint Stakeholder and PJM ICC Penalty Calculation

Σ Penaltydh = min (d, 15) x LMPh x MWh x E x 20

- LMP*h* = Average hourly LMP over duration of non-compliant offer
- MW*h* = Average hourly available MW over duration of non-compliant offer
- E (Market Seller Identified Error) = Discount equal to 0.25 if non-compliant offer is reported by Market Seller without inquiry from PJM or IMM.
- I (Market Impact Factor) = Discount equal to 0.10 if non-compliant offer did not have potential to impact market at any time during period of noncompliance