

# PJM 5/4 Special MRC CP Penalty Rate Packages

Examples below use 3/4 DY RTO LDA clearing price and Net CONE (where applicable).

	<u>PAI Charge Rate</u>	<u>Stop-Loss Limit (SLL)</u>	<u>PAI Trigger Details *</u>
<b>Status Quo (SQ):</b>	Modeled LDA Net CONE ICAP/30 hours (\$/MWh)	1.5x Net CONE ICAP (\$ MW-year basis)	<u>(see next slide)</u>
<b>SQ Rate:</b>	\$3,177	\$142,952	
<b><u>Packages:</u></b>			
<b><u>LS Power:</u></b>			
<b><u>Main Motion:</u></b>	SQ PAI Rate: Modeled LDA Net CONE/30	2x BRA Clearing Price* Applies 3/4 DY & 4/5 DY	
<b><u>Rate:</u></b>	\$3,177/MWh	\$23,659 MW-year	
<b><u>AMP:</u></b>			
<b><u>Alternate:</u></b>	(BRA Price * 365)/30 Applies to 3/4 DY & 4/5 DY	1.5x BRA Clearing Price Applies 3/4 DY & 4/5 DY	
<b><u>Rate:</u></b>	\$394 /MWh	\$17,744 MW-year	
<b><u>IMM:</u></b>			
<b><u>Alternate:</u></b>	(BRA Price * 365)/30 Applies until CIFP-RA approved	2x BRA Clearing Price Applies until CIFP-RA approved	
<b><u>Rate:</u></b>	\$394/MWh	\$23,659 MW-year	

Note: PAI Rate & SLL applied to cleared commitment in IUCAP terms: SLL is in \$ MW-year: \* denotes change from 5/1 MRC

# PAI Trigger Details\*

## PAI Trigger – Full Details:

LS Power Main:

Per PJM/IMM PAI Trigger Language

AMP Alternate:

Per PJM/IMM PAI Trigger Language

Joint IMM/PJM  
PAI Trigger  
language:

**PAI Trigger if both: a) and b) conditions met or c.) condition below is met:**

**a).** PJM is short primary reserves for a RZ and/or a RS: i.) A primary reserve shortage is when the assigned MW are less than the requirement in the dispatch run of the RT SCED. ii.) The requirement includes 150% of the synchronized reserve requirement, defined to be the largest contingency plus any adjustments made to manage system conditions.

**b).** There is an emergency procedure from the list below in effect for the entire RZ and/or RS experiencing the reserve shortage. i. Voltage Reduction Warning and Reduction of Non-Critical Plant Load ii. Manual Load Dump Warning iii. Simultaneous call of a Maximum Emergency Generation Action and Emergency Load Management Reduction Action iv. Curtailment of Non-Essential Business Load and Voltage Reduction.

**EA list excludes:** Unit Startup Notification Alert, Maximum Generation Emergency/Load Management Alert, Primary Reserve Alert, Voltage Reduction Alert, Primary Reserve Warning, Pre-Emergency Load Management Reduction, Emergency Voluntary Energy Only Demand Response Reductions, Local Load Shed Directive.

**Or: c) if one of the following occur for a RZ and/or a RS: Deploy All Resources Action, Voltage Reduction Action, Manual Load Dump Action, Load Shed Directive. \***

**Note: RZ = reserve zone; RS = reserve subzone; \* denotes change from 5/1 MRC.**

# Appendix – SQ PAI Triggers

## SQ PAI Triggers:

See M18, section 8.4A:

- Pre-Emergency Load Management Reduction Action
- Emergency Load Management Reduction Action
- Primary Reserve Warning
- Maximum Generation Emergency Action
- Emergency Voluntary Energy Only Demand Response Reductions
- Voltage Reduction Warning and Reduction of Non-Critical Plant Load
- Curtailment of Non-Essential Business Load
- Deploy All Resources Action
- Manual Load Dump Warning
- Voltage Reduction Action
- Manual Load Dump Action
- Load Shed Directive