

Transition process to relieve CSP of RPM commitments for DR that can not be delivered due to 30 minute notification requirement (FERC order on DR operational resource flexibility)

DRS 11/19/14

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# Transition Mechanism filed with FERC 15/16 and 16/17 Delivery Years

- [1 week prior to posting planning parameters for IA] –
  CSP to provide PJM cleared MWs from prior RPM
  auction(s) that cannot be delivered due to 30 minute
  lead time requirement by product by zone/subzone.
  - 15/16 CSP must notify based on 3<sup>rd</sup> IA schedule
  - 16/17 CSP must notify based on 2<sup>nd</sup> IA and/or 3<sup>rd</sup> IA schedule
  - CSP IA offer restriction
    - CSP is not permitted to sell MWs in any modeled LDA (including any modeled sub-LDA of the LDA) for which non-viable DR MWs are declared for such Delivery Year
- [planning parameters posting date for IA] PJM to publish aggregate non-viable DR MWs



## Transition Mechanism filed with FERC 15/16 and 16/17 Delivery Years (continued)

- [IA start date] PJM to aggregate all adjustments (CSP non-viable MWs, forecast adjustment ,etc.) and include in 1<sup>rst</sup> or 2<sup>nd</sup> auction if amount exceeds threshold (lessor of 1% or 500 MW as currently defined in tariff) and if it does not exceed threshold then include in 3<sup>rd</sup> IA
  - PJM to increase capacity procured (or reduce capacity released) in IA (as necessary)
    - Cost will be allocated consistent with current tariff provisions for forecast adjustment
  - Bilateral transaction are subject to review and referral to MMU and/or FERC Office of Enforcement and should not be executed for non-viable MWs for financial gain.
- [Prior to start of DY] PJM to reduce CSP capacity commitment in eRPM by product by zone and prorate amount of non-viable MW as necessary if CSP cleared MWs in multiple auctions
- [Prior to start of DY] CSP responsible to register enough DR to cover final capacity commitment or receive daily deficiency charge.
- [normal bill cycle during DY] PJM to only pay capacity revenue based on final CSP capacity commitment



- 10/20/14 PJM filed at FERC
- 12/19/14 Requested FERC approval
- 1/16/15 Final date for CSPs to submit non-viable MW for 15/16 DY. Specific date for 16/17 DY will be posted in future (1 week before planning parameters are posted for 3<sup>rd</sup> IA).



- For detailed instruction on the process see:
  - http://www.pjm.com/~/media/marketsops/rpm/rpm-auction-info/dr-operation-resourceflexibility-transition-provision.ashx
- CSP emails the following information to PJM by 1/16/15 (for 15/16 DY)
  - Product
  - Zone/subzone (e.g. PSEG North see table in appendix for list of zones/subzones)
  - Delivery Year
  - Non-viable MWs
- PJM to confirm with CSP that non-viable MWs were accepted.



- 2015/16 Non-viable MW IA restriction by zone by LDA (sub-LDA)
- 2016/17 Non-viable MW IA restriction by zone by LDA (sub-LDA)
- Example 1 General example for 15/16
- Example 2 CSP specific example
- Example 3 CSP specific example



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AECO	EMAAC	Х										Х	Х			Х		Х				х	Х	X
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APS	RTO	Х	X	X	X	Х	X	Х	X	X	X	X	X	X	X	X	X	X	X	Х	X	X	X	X
ATSI (excluding Cleveland LDA)	ATSI				X	Х																		
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COMED	RTO	Х	X	_	X	Х	X	Х	X	X	X	X	-	X	X	X	X	X	X	Х		X	X	X
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DOM	RTO	Х	X	X	X	Х	X	Х	X	Х	Х	X	X	X	X	Х	Х	X	Х	Х	X	X	X	X
DPL (excluding DPL SOUTH LDA)	EMAAC	Х										X	Х			Х		Х				Х	X	X
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DUQ	RTO		X	_	X	Х	X	X	X	Х	X	X		X	X	X	X	Х	Х	Х	_	X	X	X
EKPC	RTO	X	X	X	X	Х	X	X	Х	X	X	X	X	X	X	X	Х	X	X	Х	X	X	X	X
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#### Aggregate Example – 15/16 Delivery Year

- CSPs cleared 1,000 MW of Limited DR in BRA for 15/16 @ \$150/MW-Day
- 1/16/15 CSPs notifies PJM that 300 MW non-viable due to 30 minute lead time rule (do not qualify for defined 30 minute lead time exceptions)
- 1/23/15 PJM publishes aggregate non-viable MWs due to 30 minute lead time requirement with other planning parameters
  - Aggregate non-viable DR MW = 300 MW (PJM may need to buy)
  - Forecast adjustment = -200 MW (PJM may need to sell)
- 2/23/15 3<sup>rd</sup> IA Opens PJM buys 100 MW (300 200) in auction
  - CSP is not permitted to sell or offer to sell MWs (of any DR product) if they have non-viable MWs
- CSPs must register 700 MW of DR before 6/1/15 or receive daily deficiency charge
- CSP will receive 700 MW \* \$150 per day for capacity commitment, instead of original 1,000 MW.



## CSP specific example – 16/17 Delivery Year Scenario 1

- Acme CSP cleared 500 MW of Limited DR in BRA in PECO for 16/17 @ \$119/MW-Day
- 2nd IA
  - (~6/5/15) CSP notifies PJM that 50 MW non-viable due to 30 minute lead time rule (do not qualify for defined exemption)
  - (~6/12/15) PJM publishes aggregate non-viable MWs due to 30 minute lead time requirement with other planning parameters
  - (7/13/15) 2<sup>nd</sup> IA Opens PJM buys in auction as necessary
    - CSP is not permitted to sell or offer to sell MWs in EMAAC zones
- 3<sup>rd</sup> IA
  - (1/22/16) CSP notifies PJM that additional 10 MW non-viable due to 30 minute lead time rule (do not qualify for defined exemption)
  - (1/29/16) PJM publishes aggregate non-viable MWs due to 30 minute lead time requirement with other planning parameters
  - (2/29/16) 3rd IA Opens PJM buys in auction as necessary
    - CSP is not permitted to sell or offer to sell MWs in EMAAC zones
- CSP must register 440 (500 50 10) MW of DR before 6/1/16 or receive daily deficiency charge
- CSP will receive 440 MW \* \$119 per day for capacity commitment, instead of original 500 MW.



### CSP specific example – 16/17 Delivery Year Scenario 2

- Delta CSP cleared 480 MW of Limited DR in BRA in Comed for 16/17 @ \$119 MW-Day and 20 MW of Limited DR in 1rst IA in Comed for 16/17 @ \$90 MW-Day.
- 2nd IA
  - CSP does not sell or offer MWs
- 3<sup>rd</sup> IA
  - (1/22/16) CSP notifies PJM that 60 MW non-viable due to 30 minute lead time rule (do not qualify for defined exemption)
  - (1/29/16) PJM publishes aggregate non-viable MWs due to 30 minute lead time requirement with other planning parameters
  - (2/29/16) 3rd IA Opens PJM buys in auction as necessary
    - CSP is not permitted to sell MWs in any zone in RTO
- CSPs must register 440 (500 60) MW of DR before 6/1/16 or receive daily deficiency charge
- CSP will receive 440 MW \* \$117.84 ([480 MW/500MW] \* \$119 + [20 MW/500 MW] \* \$90) per day for capacity commitment, instead of original 500 MW. Non-viable MWs prorated based on amount cleared in prior auctions.