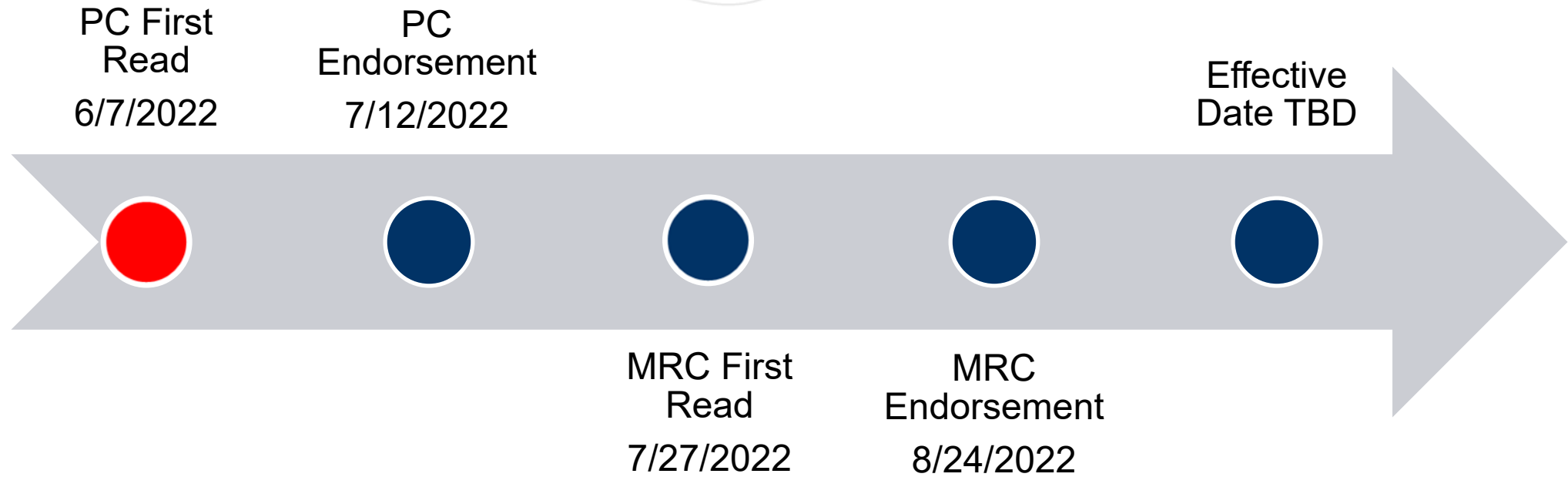


# Generator Deliverability Test Modifications Update

- PJM provided a full education session of the new proposal accompanied by analytical results comparing the status quo approach to the new approach at the 2/23/2022 special PC session “CIRs for ELCC Resources”
- PJM held an additional special PC session on 3/4/2022 to address questions
- PJM subsequently received additional questions and stakeholder feedback and is in the process of responding and refining the PJM Package
- A final special PC session has been scheduled on April 28 prior to bringing to a first read in June

# Revised Review and Approval Timeline



# Discussion Of Updated Analytical Results For Light Load



# RTEP Baseline – Proposal Impact Summary - UPDATE

Violation Driver		Summer	Winter	Light Load	Total
<b>Higher Intermittent</b>	# of Violations:	2	0	2	4
	\$M Cost	\$ 7.00	\$ -	\$ 12.00	\$ 19.00
<b>Block Dispatch</b>	# of Violations:	1	1	5	7
	\$M Cost	\$ 28.00	\$ 8.50	\$ 99.00	\$ 135.50
<b>Block Dispatch + Lower Intermittent Helpers</b>	# of Violations:	2	0	0	2
	\$M Cost	\$ 11.50	\$ -	\$ -	\$ 11.50
<b>Impact of All Drivers</b>	# of Violations:	5	1	7	13
	\$M Cost	\$ 46.50	\$ 8.50	\$ 111.00	\$ 166.00

Two light load block dispatch-related violations determined to longer be valid so total cost went down from \$185M to \$166M

- Current light load period considers only nighttime hours with NO solar output
- New light load period is defined as 40-60% of peak load during the hours of 10AM-3PM
- Mainly occurs during Spring and Fall days

Solar % Max Output During Light Load

MAAC	P80%	Average
Solar Fixed	78%	52%
Solar Tracking	86%	56%

PJM West	P80%	Average
Solar Fixed	82%	53%
Solar Tracking	82%	54%

DOM	P80%	Average
Solar Fixed	87%	59%
Solar Tracking	85%	58%

# Queue Scenario Using CPs: Light Load Solar @ Average Output

## # Violations Under Status Quo

	PJM East	PJM West	PJM South	TOTAL
Single	5	33	0	38
Common Mode	1	7	0	8
<b>TOTAL</b>	<b>6</b>	<b>40</b>	<b>0</b>	<b>46</b>

## # Violations Under Proposal (Solar @ P80% Output)

	PJM East	PJM West	PJM South	TOTAL
Single	13	27	74	114
Common Mode	11	21	16	48
<b>TOTAL</b>	<b>24</b>	<b>48</b>	<b>90</b>	<b>162</b>

## # Violations Under Proposal (Solar @ Avg Output)

	PJM East	PJM West	PJM South	TOTAL
Single	7	21	31	59
Common Mode	10	14	8	32
<b>TOTAL</b>	<b>17</b>	<b>35</b>	<b>39</b>	<b>91</b>

- Many of the light load violations also show up as summer violations
- After accounting for the summer violations
  - Status quo: 25 of 46 violations remain in light load
  - New test, solar @ P80% output: 57 of 162 violations remain in light load
  - New test, solar @ avg output: 29 of 91 violations remain in light load
- Because PJM has harmonized summer and light load dispatch and testing procedures under the new proposal, there is a much higher overlap between summer and light load violations
- In addition, the new light load procedure will use a lower temperature rating set (higher line ratings) which will reduce the number of remaining violations under the new proposal even further when applied to these results



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