

## EMS Upgrade Program Update

As of April 17, 2023





<b>pjm</b> °	Impact Details – EMS Upgrade Program					
<b>Product - Action Required</b>	Deadline	Who May Be Affected				
SCADA/AGC Cut-over from Siemens Spectrum to OSI Monarch system. No actions necessary.	May 2023	Members with ICCP or DNP links with PJM				





**Details/Summary of Information** 

- SCADA uses ICCP and DNP protocols to send and receive telemetered data such as breaker statuses and generator output. This data feeds downstream transmission network applications
- AGC calculates a control signal to maintain system frequency, controls generator output, and provides a backup option to market-based dispatch

<b>pjm</b> °	2023 EMS Upgrade Program Roadmap											
2023												
	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Member Link Testing and Final Cut-over				•								
Monarch Go-live					•							



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#### **EMS** Upgrade

To prepare for the May go-live PJM will complete Member Link testing and resolve all critical defects. The Monarch EMS will complete the CIP process and will be certified by Reliability First.

Incoming (to PJM) link testing complete

Outgoing (from PJM) link testing underway

Outgoing link testing is carefully coordinated between PJM Telemetry Support, downstream member, and PJM Performance Compliance



### Table Top Review & Mock Cutover

- Schedule Start: Mid-April
- Table Top Review
  - Goal: Final verification of go-live day tasks/order/timing
  - Scope: Tabletop exercise with each team walking through High Level plans
  - Occurrences: 3 virtual / in-person exercises
- Mock Cutover
  - Goal: Exercise performing execution & backout of cutover tasks
  - Scope: Non-site of Record only validate cutover functions, Dispatch/RE actions, and revert all back
  - Occurrences: 3 in-person exercises



- A PJM Remote Terminal view will be rolled out in late April
  - This will allow TOs to view the Monarch system prior to cut-over
- TO User Guide updates are in progress
- No changes to Transmission Network Applications (TNA)
- No changes to how TOs connect to PJM remote view terminal
  - User name and password will not be changed
- No changes to PJM support process

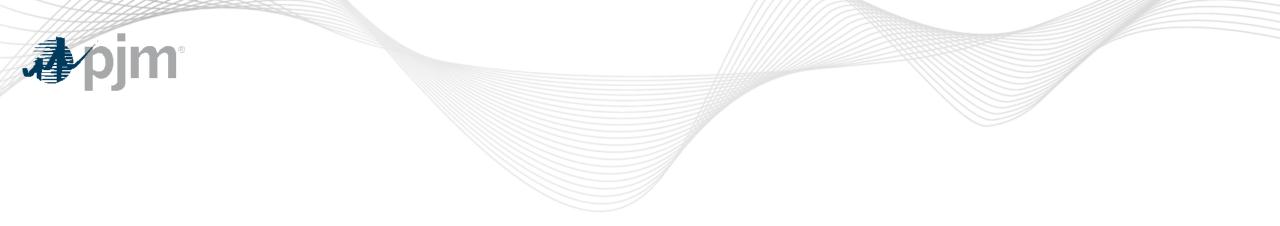




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## **Product Details**





# The EMS allows PJM and it's members to send and receive telemetered ICCP and DNP data

## **Key Product Features**

- Data Processing
- Alarm Processing
- Generation Control
- Frequency Control
- Economic Dispatch