



EMS Upgrade Program Update

As of April 17, 2023



- N/A

Product - Action Required	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



- SCADA uses IEC 60870-5-104 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



2023 EMS Upgrade Program Roadmap

2023												
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Member Link Testing and Final Cut-over				◆								
Monarch Go-live					◆							

Legend

- Start Date
- ◆ End Date

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

- 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

Facilitator:

Todd Keech, Todd.Keech@pjm.com

Secretary:

Dave Miscavage, Dave.Miscavage@pjm.com

Presenter:

William O'Brien, William.OBrien@pjm.com

Member Link Testing SME:

John Smith, John.Smith@pjm.com



Member Hotline

(610) 666 – 8980

(866) 400 – 8980

custsvc@pjm.com



Product Details

The EMS allows PJM and its members to send and receive telemetered ICCP and DNP data

Key Product Features

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