



EMS Upgrade Program Update

As of March 13, 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

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EMS Networking



Member Hotline

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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