

**Systemwide exercise to assess the readiness of incident response capabilities in the event of operations disruptions as a result of a physical and cyber events.**

## Objectives

- Exercise incident recognition
- Exercise triage and escalation procedures
- Engage interdependent sectors
- Assess external reporting requirements
- Improve communication
- Gather lessons learned

## External Players

- 12 transmission owners
- 6 generation owners
- TC Energy (gas pipeline)

## Internal Exercise Components

- Dispatch (training shift in simulator)
- Incident Response Team (IRT)
- Cybersecurity Incident Response Team (CSIRT)
- Operations Event Response Team (OERT)
- Gas pipeline coordination

## Injects

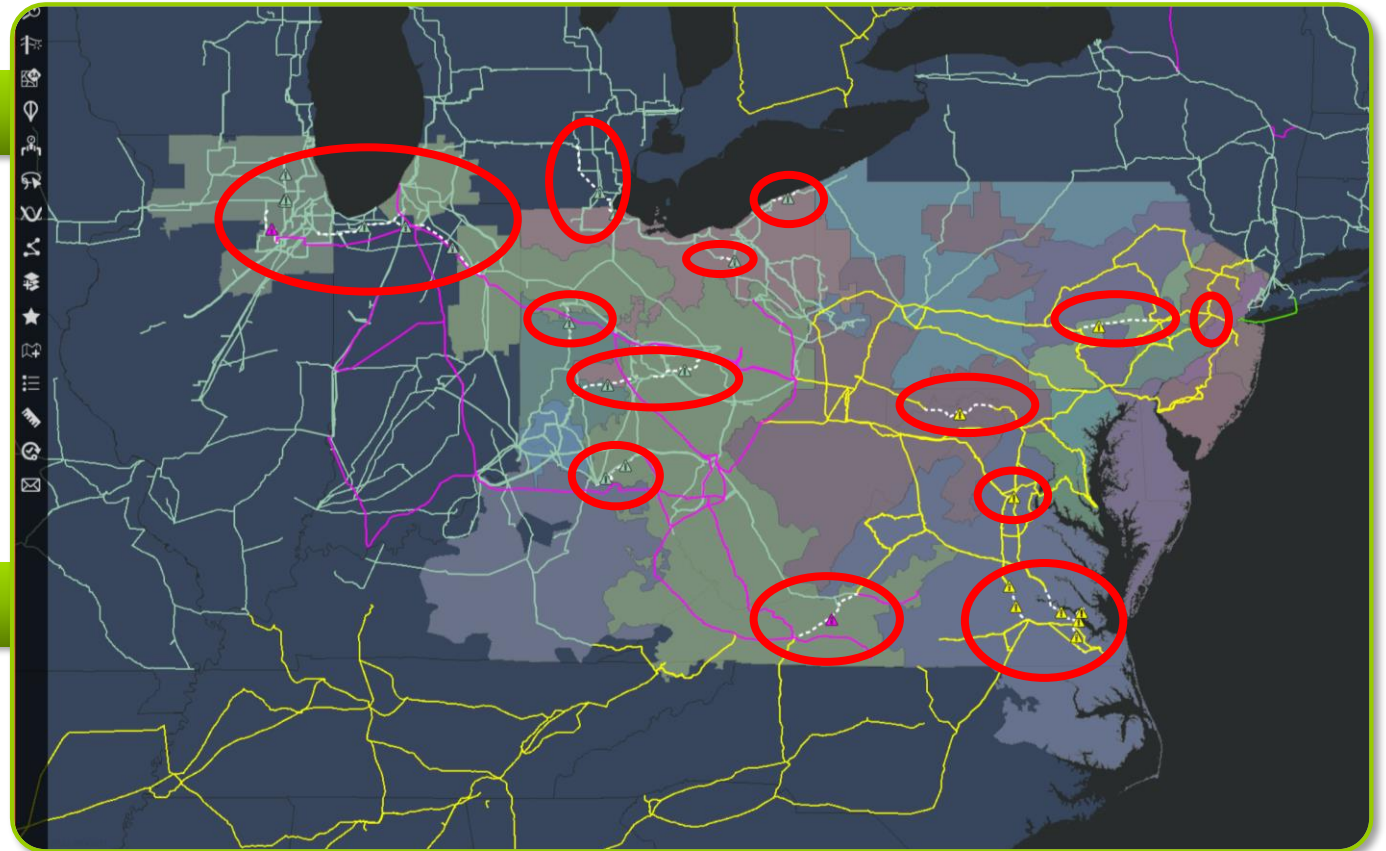
- 86 physical and cyber incidents
  - Explosives, drones, etc.
  - Malware, DDOS, insider threat, etc.
  - Civil unrest
- Loss of ICCP

## Results

- Conservative operations activated
- Demand-side response activated
- Manual dispatch
- Load shed events
- Loss of situational awareness

## Lessons Learned

- Members provide procedures electronically
- PJM to investigate expanding exercise tools
- Review internal response team actions



**Lessons learned will be incorporated into 2021 GridEx Drill.**