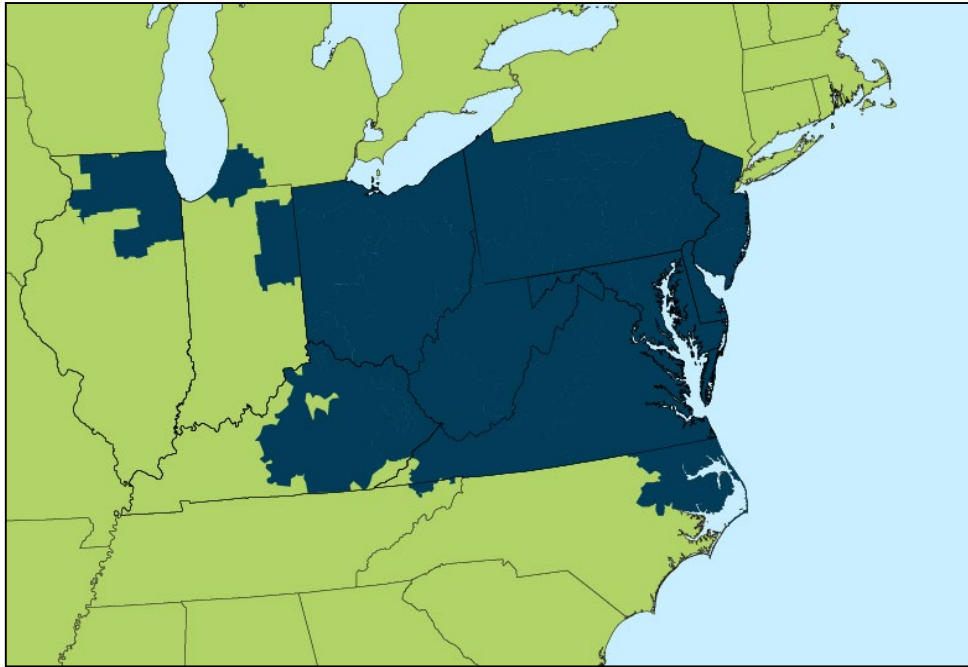


2022 PJM Grid Security Drill



Ed Figuli, Sr. Operator Trainer
Nitín Sem, Business Continuity Sr. Analyst

Assumption that reconnaissance campaign has already infiltrated cyber assets within the BES.

E-ISAC releases information via portal regarding threat they have received against BES.

Reports on RCIS reveal a pattern of suspicious activity from several utilities including physical attacks, copper theft, and disrupted communications to some facilities.

The adversary has a desire to cause severe disruptions to the North American power grid and is focused on creating a blackout in populated areas to maximize national visibility using psychological and economic attack strategies.

The adversary's coordinated attack conducted through physical attacks and cyber operations that impact normal grid operations.



08:00 EST



15:30

High Level Scenario
Nation-state sponsored attacks against the BES:
- Physical-attacks on EHV substations and Facilities
- Cyber-attacks (Human Machine Interface (HMI), Spear-phishing, DDOS)
- Loss of SCADA

Member #1

Member #2

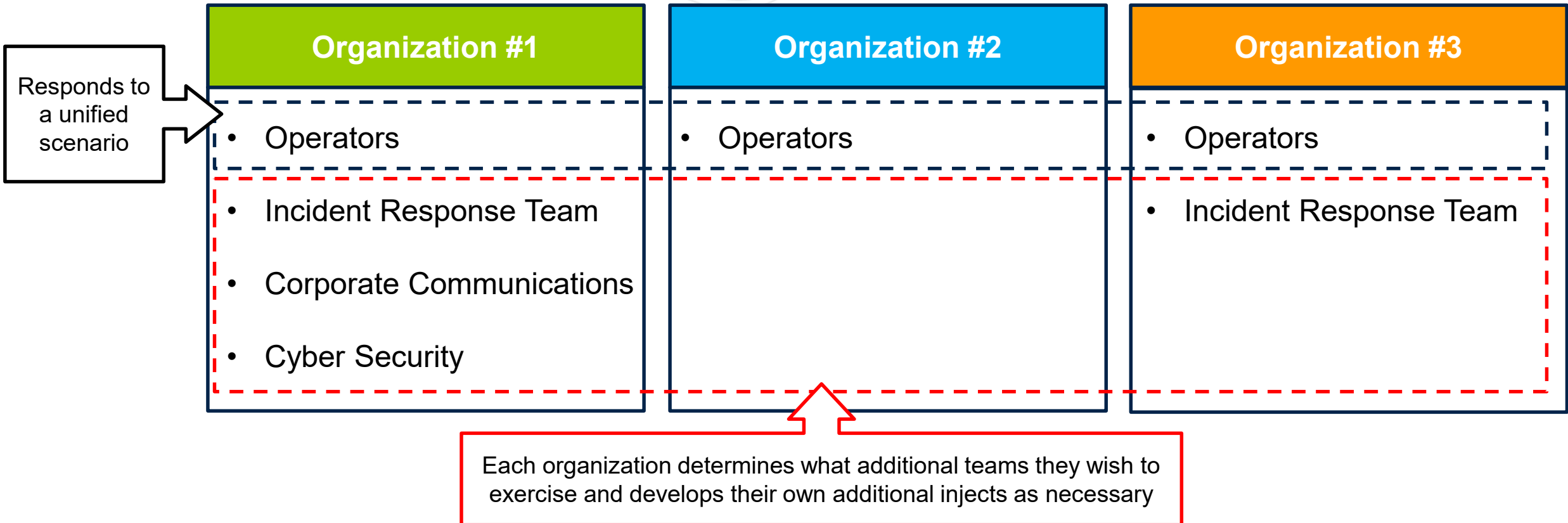
...

Inject 1

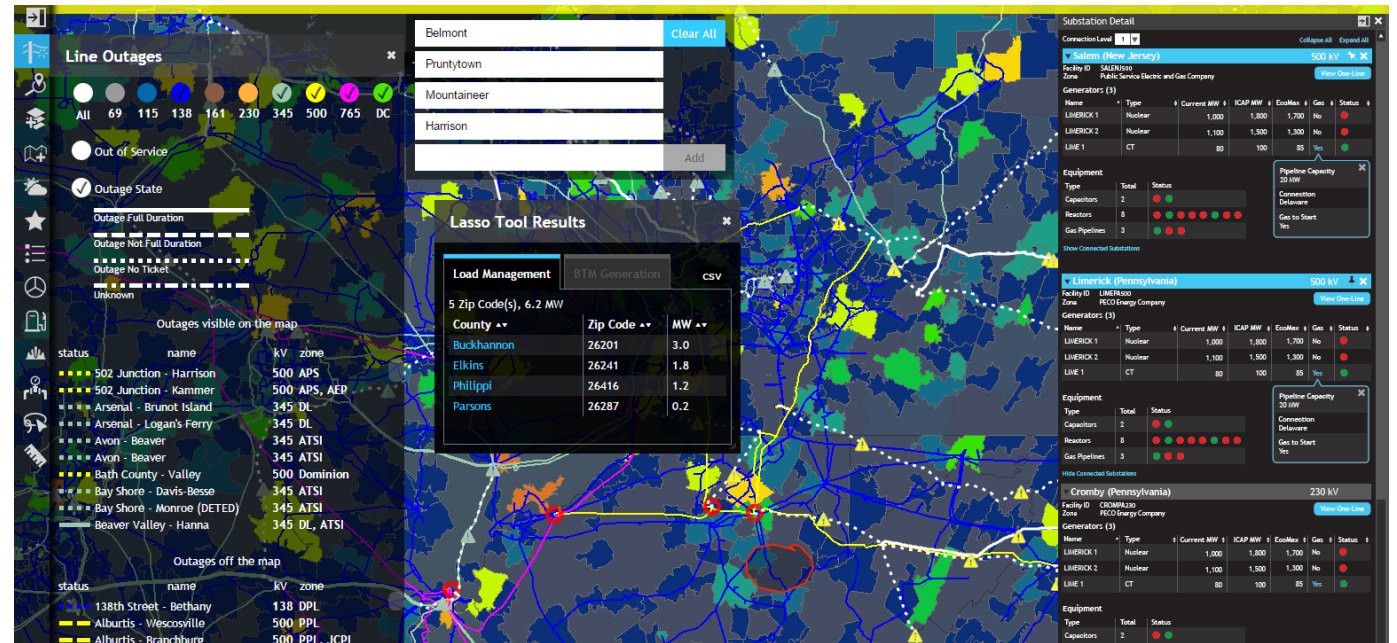
Inject 2

...

Each organization will have their own customized drill injects that will provide a meaningful impact to their organization.



- Impacted Facilities and Voltage Levels
- Detailed Description
- Additional Organizations Impacted (if applicable)





- All participants using a simulator will take a snapshot on 8/26
- 9/2 will serve as a backup date in the event there are issues

- **Continued Education Hours**
 - 7 hours (approx.)
 - All CE hours will qualify for Simulation & EOP
 - CE credit will require participation in all exercise activities
 - Operators must be fully dedicated to exercise activities



Tentative Schedule

| Activity | Date |
|---|--|
| Kick-off Meeting | May 5 |
| Monthly Member Meetings | First Thursday of each month |
| Confirm Participation | May 31 |
| Individual Inject Discussion Meetings | June / July / Aug |
| Simulation Snapshot Date | August 26 (September 2 as backup) |
| Inject Deadline | September 2 |
| Inject Freeze Date | September 16 |
| Final Inject Discussion Meeting (Scenario Walkthrough) | October 6 |
| Communications Test (Phones & All Call) | October 25 (1000 hrs) |
| Drill Execution / Capture Actions and Lessons Learned | November 8 (15th?) (0800 through 1700) |



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