



2021 GridEx VI Update

July 27th, 2021

Ed Figuli, Sr. Operator Trainer

Activity	Date
Kick-off Meeting	June 2
Monthly Meetings	First Thursday of each month
Confirm Participation	June 30
Individual Inject Discussion Meetings	July / Aug
Simulation Snapshot Date	August 27 (September 3 as backup)
Inject Deadline	September 17
Final Planning Meeting (Scenario Walkthrough)	October 7
Inject Freeze Date	October 15
Communications Test (Phones & All Call)	November 3 (1000 hrs)
Drill Execution / Capture Actions and Findings	11/16 - 11/17 (0900 through 1700)

- Coordinate injects with members TOs and GOs within PJM RTO
 - Assist with inject development
 - Implement injects in PJM simulator
 - Perform RC to RC coordination
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- Additional information to follow for guests registered for GridEx



Inject #	Inject Type	Inject Title	Inject Description	Recipients
1.03	Physical	Large Explosions	<p>Residents hear loud explosions and contact local law enforcement.</p> <p>Local operators at the affected stations initiate emergency response procedures.</p> <p>Grid operators observe generators tripping offline and transmission circuit breakers opening at a number of locations over a wide area near-simultaneously.</p> <p>The impacted facilities serve major population centers and critical infrastructure assets.</p>	<p>Generator Operators</p> <p>Transmission Operators</p> <p>Distribution Operators</p>
1.06	Cyber	Renewable Generation Attack	<p>Attack on power electronics for renewables that impacts wind and solar generation resource availability occurs.</p>	<p>Generator Operators</p> <p>Transmission Operators</p>
1.07	Cyber	Attack on Hydroelectric Facilities	<p>Attack impacting hydro generation assets with potential intent to cause physical impacts occurs.</p> <p>The attack results in physical impacts to generation assets and gate controls.</p>	<p>Generator Operators</p> <p>Transmission Operators</p>
2.01	Physical	Physical Attacks on Gas Pipelines	<p>Physical attacks on natural gas pipelines and liquid natural gas production facilities disrupt gas supplies to generation facilities.</p> <p>Initial evidence indicates sabotage that has been in place and planned well in advance.</p>	<p>Generator Operators</p> <p>Natural Gas Operators</p>

PJM

- Emergency Procedures



From the Emergency Procedures page navigate to the PJM Drill dropdown menu.

Drill Participants should select **“Only”**

Those who are NOT participating should select **“Exclude”**



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