2016 PJM SPRING RTO RESTORATION DRILL

February 22nd-24th, 2016
• The Spring RTO Drill is a 3-day annual drill that requires 100% participation from all Transmission Owners for NERC compliance (GO’s participated at TO request)

• PJM coordinates the drill with input from the SRCS membership

• NERC CEH’s are given for all members who participate

• The drill provides an opportunity for members to validate their individual restoration plans and identify any issues that may need to be addressed.
• PJM staffed 26 employees at the Milford Dispatch Training Simulator Room. (Dispatchers, Training, Support Staff)

• Transmission Owners staffed their company simulators. No members were present at PJM

• PJM Dispatchers utilized the Dispatch Training Simulator to model each TO’s progress and provide a wide area overview
• PJM provided a WebEx based class to review drill expectations, logistics, and answer any outstanding questions.

• PJM reviewed the 2 required injects which were submitted by each Transmission Owner.

• PJM performed communication checks with each Transmission Owner to verify inbound/outgoing calls are received. No real-time phone numbers were used for the drill.
• Started with an SOS conference call stating the entire PJM RTO was blacked out with no outside assistance

• Members reported the status of their individual system to PJM (Utilizing verbal communications and Manual-36 documents)

• Members worked thru their individual restoration plans with a “bottom-up” restoration

• The initial focus was bringing on Black Start resources to establish cranking paths for safe shutdown at all nuclear stations.
DRILL TIME: 12:00 Day 1

Restored Tie-Line:

LOAD RESTORED: 8115MW

AEP: 995MW
COMED: 300MW
FE-WEST: 453MW
DAY: 182MW
DEOK: 120MW
EKPC: 470MW
APS: 500MW
DUQ: 513MW
CPP: 50MW
FE-EAST: 300MW
PL: 580MW
PE: 426MW
PS: 30MW
AE: 400MW
BGE: 437MW
PEP: 300MW
DPL: 474MW
DOM: 2054MW
UGI: 30MW
RECO: 37MW
Day - 3

• SOS conference to discuss the previous days accomplishments and the plan to proceed

• Members informed that outside resources are available

• PJM worked with the members to identify possible tie opportunities

• 1230hrs PJM re-established ACE control via the Dispatch Training Simulator

• SOS conference call @ 1300 for final drill de-brief.
DRILL TIME: 1300 DAY-2

Restored Tie-Line:  
Proposed Tie-Line:

LOAD RESTORED: 26,742MW (30%)
Participation

- Day 1: 274 Participants
- Day 2: 266 Participants
- 2936 NERC CEH’s awarded
- Overall satisfaction 4.4 – 5
- Final drill documents available at the next SRCS meeting later this month.