

Drill Date(s)	May 15 ^{rth} - 16 th , 2024	
Alternate Data(a)		
Alternate Date(s)	May 22 th - May 23 th , 2024	
Key Pre-Drill Date(s)	May 14 th , 2024 (Communications Testing & WebEx)	
-	 General Information: PJM will conduct a two-day Spring RTO West Restoration Drill, commencing on Wednesday, March 15th, 2024 at 0800 hours EST. Drill activities will be suspended at 1400 hours EST on Day #1 and 1300 hours EST on Day #2. The Spring RTO Restoration Drill provides an opportunity for all applicable entities to comply with the various NERC Standards and requirements PJM will have experienced a large system disturbance with a majority of the footprint shutdown. The drill will utilize generation and transmission system conditions & outages that actually exist on the dates of the drill. Transmission that is out of service for maintenance will be assumed unavailable for use in the drill. PJM will utilize its OTS during the drill. A full complement of PJM system operators will participate in the training exercise. Detailed documentation of the restoration procedures, as well as black start generating units performing intended functions, will be logged and archived. PJM Drill Responsibilities: Coordinate activities with all participating Transmission Owners. Generation Owners Restoration Plan. PJM will collect system status information and provide restoration status updates to participating members. Be proactive in identifying opportunities to assist the TOs in the restoration process. Direct the restoration of ALL available 765 / 500kV transmission facilities that had been interrupted by the end of the drill provided an appropriate amount of load and generation had also been restored. 	
	 Coordinate the restoration process with fuel-limited, unavailable generation and / or possibly damaged transmission equipment. Assume frequency control when appropriate. 	
	7. Calculate an ACE, and return to a centrally coordinated or normal operation when appropriate.	
	TO Expectations:1. Each Transmission Owner is encouraged to Identify two injects to be used in	
	restoration scenario. Please notify PJM by May 1, 2024.2. Report any restoration plan deficiencies found during the simulated restoration exercise. If deviations to a restoration plan need to occur, please notify PJM.	



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Drill Summary Cont.	3. Utilize both the top-down and bottom-up approach during the drill, understanding that initial actions would have to be bottom-up for companies that are blacked-out and isolated. The first portion of the drill will utilize bottom up restoration strategies.	
	 strategies. 4. Ensure that all nuclear units have been provided with off-site sources for safe shutdown power within 4 hours. Transmission Owners are required to notify the nuclear units within their transmission zone of expected arrival of safe shutdown power. 5. Utilize appropriate internal / external Communication Protocols. 6. Participants will be asked to evaluate drill activities, tools and processes via coordinated debriefs and during PJM DTS sub-committee meetings. Drill Injects Examples: Major transmission line unavailable Substation damaged Cranking path unavailable Unavailable generation Communication issues with field personnel Loss of battery power at a substation GO Expectations: Provide requested information to the TO regarding unit availability and/or unit start-up times. Document and send updated to PJM as requested (per Manual 36) with unit data in the requested TO zone. During the drill, current day generation status will be what is used as the status of 	
	generation plants for the drill	
Pre-Drill Information & Communications Testing	DTS Meeting: Tuesday May 14, 2024 A Dispatcher Training Subcommittee Meeting will be held on Tuesday, May 14 th from 1100-1300. PJM will discuss drill logistics and planning as well as Test communication systems. Please register for the DTS meeting at <u>http://www.pjm.com/committees-and-groups/subcommittees/srcs.aspx</u>	
	 During the DTS The following information will be discussed: SOS Conference Calls Drill WebEx information Associated paperwork PJM Roles Member Company expectations How to complete and submit reports Items that need to be logged 	

	Communications Testing	<u>E</u>		
	PJM will conduct a test of the communication systems on <u>Tuesday, May 14,</u> 2024. The test will begin with an SOS conference call at 1100 hours EST in which all participants will review their responsibilities and discuss any communication issues. All phone and email systems utilized during the drill will be tested at this time. The communications testing is expected to be completed by 1300 hours EST			
Conference Call Information	Actual Conference calls (and tests) will be held as outlined below and as part of the drill progression. Members are requested to dial into these calls as appropriate. All times listed are in Eastern Prevailing Time (EPT). *Note: The conference call schedule may adjust during the drill to have additional or less calls if necessary.			
	Tuesday, May 14 th 1100 DTS & Communication Systems Test			
	Wednesday May 15th0730SOS Pre-Drill Conference Call (All Participants)1030SOS Check- In & System Status Conference Call (TOs)1400SOS- PJM Day 1 Drill De-brief Conference Call (All Participants)Thursday May 16th0730SOS Pre-Drill Conference Call (All Participants)1030SOS Check- In & System Status Conference Call (TOs)1030SOS Check- In & System Status Conference Call (TOs)1300SOS PJM Drill De-brief Conference Call (All Participants)*There will not be a scheduled break for lunch.			
	The information for all PJM Drill Conference Calls is as follows:			
	NOTE: The WebEx will begin at the start of the drill and will remain on throughout the drill. Participants will also have the option to "Chat" questions during the drill via WebEx.			
	Tuesday May 14, 2024	Conference Call Number: 1-844-992-4726 <u>WebEx Link</u> Webinar Number: 2346 755 7397 Meeting Password: Nf3w3JuwRb3		
	Wednesday May 15, 2024	Conference Call Number: 1-844-992-4726 <u>WebEx Link</u> Webinar Number: 2330 367 9163 Meeting Password: 3FGpQtRF7Y2		
	Thursday May 16, 2024	Conference Call Number: 1-844-992-4726 <u>WebEx Link</u> Webinar Number: 2349 587 4100 Meeting Password: h6PYMiSYP76		
Drill CE Hours	 TO Participation: up to 11 CEHs* GO Participation: up to 11 CEHs* * CE hours earned will be based on the level of participation for each day - up to 6 hours for Day #1 and up to 5 hours for Day #2 			



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Forms	 Drill Participation Form - http://pim.com/~/media/training/member-training-liaison-forms/att-d-app-4.ashx This form must be completed by all entities participating in the drill in order to receive CE credit. Please email completed participation form to: trainingsupport@pim.com Drill Evaluation Form - https://www4.virtualtrainingassistant.com/PJMWeb/PJMDrillEvaluation.html Company Initial Restoration Report – This form (Exhibit 12, M-36) should be completed within the first hour of the drill. Please use Restoration SharePoint to submit this form. Log Sheets – At the conclusion of the drill, participants should submit any log sheets such as the <i>Company Transmission Restoration Report</i> with all relevant documentation including the following: Cranking paths used during restoration Black start units used during restoration Paths and times for shut-down power to nuclear plants Please send to <u>Restoration Report</u> - This report (Exhibit 15, M-36) needs to be submitted <u>every 10 lines restored or every 30 minutes</u>. NOTE: You do not have to submit a form if you did not restore any transmission lines in the past 30 minutes. Please use Restoration Report – This report (Exhibit 14, M-36) needs to be submitted on an hourly basis or sooner if more than 100 MWs were brought online since the last report was submitted. <i>*Please call PJM as black start units are brought online</i>.* Please use Restoration-Drill/Spring2024/default.aspx
Online Training Information	System Restoration Online Drill Refresh - Notification will be sent to the Dispatcher Training Subcommittee (DTS) when available
Drill Contacts/ Questions	For questions pertaining to the Drill please contact: SystemRestorationDrillTm@pjm.com For questions pertaining to the restoration refresh online training, CE hours, participation form or evaluation form please contact: Trainingsupport@pjm.com