Generation Operator

Task List

1 Terminal Task  Given the need to support PJM’s forward-looking reliability analysis, verify information submitted in accordance with the appropriate PJM manuals.

   1.1 Enabling Objective  Submit/Verify data into PJM’s day-ahead market construct
   1.2 Enabling Objective  Verify forward unit availability in accordance with PJM requirements

2 Terminal Task  Given a resource within PJM, support its reporting and testing in accordance with the appropriate PJM manuals

   2.1 Enabling Objective  Validate and report changes in Generator Reactive capability
   2.2 Enabling Objective  Validate and report changes in Generator MW capability

3 Terminal Task  Given a generator on the PJM system, respond to unit problems, monitor unit operating parameters, determine any variations from expected values and ensure they are accurately represented to PJM in accordance with the appropriate PJM manuals

   3.1 Enabling Objective  Identify any changes to unit availability and update PJM accordingly
   3.2 Enabling Objective  Verify unit limits are accurately represented to PJM
   3.3 Enabling Objective  Coordinate with PJM to start-up and shut-down a generating unit
   3.4 Enabling Objective  Coordinate with PJM to adjust unit output
   3.5 Enabling Objective  Report changes in Generator Governor Status
   3.6 Enabling Objective  Report changes in Automatic Voltage Regulator (AVR) /Power System Stabilizer (PSS) status
   3.7 Enabling Objective  Monitor for any unit problems and respond appropriately

   3.8 Company Specific Task – Given a notification of a problem with a unit, explain how to respond in accordance with company guidelines

4 Terminal Task  Given a request for PJM operational information, respond in accordance with the appropriate PJM manuals

   4.1 Enabling Objective  Validate and submit Instantaneous Reserve Check (IRC) data
   4.2 Enabling Objective  Validate and submit Supplementary Status Report (SSR) data

5 Terminal Task  Given a capacity emergency, respond to Emergency Procedures and take appropriate action in accordance with the appropriate PJM manuals

   5.1 Enabling Objective  Respond to a PJM issued Alert and take the appropriate action
   5.2 Enabling Objective  Respond to a PJM issued Warning and take the appropriate action
   5.3 Enabling Objective  Respond to a PJM issued Action and take the appropriate action

6 Terminal Task  Given a Voltage Emergency, respond to Emergency Procedures and take the appropriate actions in accordance with PJM manuals
6.1 **Enabling Objective**  Respond to a PJM issued Low Voltage Alert and take the appropriate action

6.2 **Enabling Objective**  Respond to a PJM issued Heavy Load Voltage Schedule Warning and take the appropriate action

6.3 **Enabling Objective**  Respond to a PJM issued Heavy Load Voltage Schedule Action and take the appropriate action

6.4 **Enabling Objective**  Respond to a PJM issued High System Voltage Message and take the appropriate action

7 **Terminal Task**  Given the need for conservative operations, respond to PJM instructions and take appropriate action in accordance with PJM manuals

   7.1 **Enabling Objective**  Report events that would prompt PJM to adopt conservative operations

   7.2 **Enabling Objective**  Respond to PJM adopting conservative operations

8 **Terminal Task**  Given the requirements as outlined in the appropriate PJM manuals, explain your company’s backup recovery plan.

   8.1 **Company Specific Task** – Given the requirement to have a backup recovery plan, explain your company’s procedures for the loss of functionality at the primary control center

9 **Terminal Task**  Given a restoration condition, start, operate & load a unit in accordance with the established restoration procedures

   9.1 **Enabling Objective**  Evaluate equipment conditions after a disturbance to determine impact to reliability unit operations

   9.2 **Enabling Objective**  Notify PJM (and other affected parties) of equipment status during the restoration process

   9.3 **Enabling Objective**  Identify the requirements to bring a unit online during a restoration

10 **Terminal Task**  Given a black start resource within PJM, support its operation, reporting and testing in accordance with the appropriate PJM Manuals

   10.1 **Enabling Objective**  Identify the processes for offering and testing black start resources

   10.2 **Enabling Objective**  Identify the requirements to bring a black start resource online during a restoration

11 **Terminal Task**  Given an equipment outage, ensure that all appropriate information is conveyed in accordance with the appropriate PJM manuals

   11.1 **Enabling Objective**  Explain how to submit/modify an outage request to PJM

12 **Terminal Task**  Given operating control systems & data exchange requirements, evaluate the integrity of the data in accordance with the appropriate PJM manuals

   12.1 **Enabling Objective**  Recognize and address any inconsistencies in data reported/received electronically

13 **Terminal Task**  Given telecommunication requirements, ensure appropriate equipment is functional in accordance with the appropriate PJM manuals

   13.1 **Enabling Objective**  Identify the satellite phone requirements for generation facilities/MOCs and the associated testing requirements
13.2 **Enabling Objective**  Explain the function and use of the PJM All-Call System

13.3 **Enabling Objective**  Explain how to coordinate outages of telemetry and communication equipment with PJM (RTUs, datalinks, etc.)

14 **Terminal Task**  Given the need for communication, ensure that the exchange is made in accordance with the appropriate PJM manuals

14.1 **Enabling Objective**  Respond to a PJM All-Call message for Operational, Informational and/or Emergency situations

14.2 **Enabling Objective**  Describe the requirements for use of 3-part communication in real-time operational messages and/or instructions

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<td><strong>Total Terminal Tasks:</strong></td>
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<td><strong>Total Company-Specific Tasks</strong></td>
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