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

3.9 Company Specific Task – Identify the requirements to bring a unit online/offline when requested by PJM

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 **Company Specific Task** Identify the requirements to bring a unit online/offline 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 **Company Specific Task** Identify the requirements to bring a black start resource online/offline 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
12.2 Company Specific Task  Given operating control systems & data exchange requirements, explain how to verify the accuracy and resolve inconsistencies in your company’s EMS data in accordance with company guidelines.

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>Total Terminal Tasks:</td>
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<td>Total PJM Enabling Objectives</td>
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<td>Total Company-Specific Tasks</td>
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Revision History

Revision 00 (10-16-2013)
This is the first DTS-approved version of the Generation Operator Task List