

## Generation Dispatcher 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/or reactive capability
  - 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 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** *This Enabling Objective was retired on 12/17/19*
  
- 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** Respond to weather emergencies requiring conservative operations and take the appropriate action

7.2 **Enabling Objective** Respond to physical threats requiring conservative operations and take the appropriate action

7.3 **Enabling Objective** Respond to cyber threats requiring conservative operations and take the appropriate action

7.4 **Enabling Objective** Respond to geomagnetic disturbances requiring conservative operations and take the appropriate action

7.5 **Enabling Objective** Respond to high-altitude electromagnetic pulse events requiring conservative operations and take the appropriate action

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, coordinate with PJM and/or the TO as appropriate in accordance with the established restoration procedures and PJM manuals

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

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

9.3 **Company Specific Task** Coordinate internal requirements with PJM and/or the TO during a restoration in accordance with company guidelines

10 **Terminal Task** *This Task was retired on 11/11/15*

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/GMS 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 outlined in PJM’s Communication Protocols when issuing or receiving Operating Instructions

|  | <b>Total</b> |
|--|--------------|
| <b>Total Terminal Tasks:</b>               | <b>13</b>    |
| <b>Total PJM Enabling Objectives</b>       | <b>33</b>    |
| <b>Total <i>Company-Specific</i> Tasks</b> | <b>5</b>     |

### Revision History

#### Revision 00 (10-16-2013)

This is the first DTS-approved version of the Generation Operator Task List

#### Revision 01 (11-17-2015)

The Task List was reviewed and revised based on the work of a DTS Sub-Group. The following Tasks/Enabling Objectives were revised (language changes):

EO 3.6, Task 3.9, Task 9, EO 9.1, EO 9.2, Task 9.3, Task 12.2. Task 10 was retired as a result of this revision as it was determined that the task did not apply to the Generation Dispatcher.

*Note: Language changes did not affect how the task is completed.*



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**Revision 02 (08-16-2016)**

This Task List was reviewed and revised based on updates to PJM Manual 1. The following Enabling Objective was revised:

Language change to EO 14.2 to reflect Manual 1 language (PJM Communication Protocols)

*Note: Language changes did not affect how the task is completed.*

**Revision 03 (12-17-2019)**

This Task List was reviewed and revised based changes to how Fuel Limited Resources are reported and the elimination of the SSR.

EO 4.2 to be retired with the elimination of the SSR.

**Revision 03 (11-17-2020)**

This Task List was reviewed and no revisions identified.

**Revision 04 (08-20-2021)**

This Task List was reviewed and revised based on feedback from a member company. The following Enabling Objectives were revised or added:

EO 7.1, 7.2, 7.3, 7.4, 7.5 to provide more clarity into Conservative Operations categories

*Note: Language changes did not affect how the task is completed.*