

# Overview of PJM UDS Fail procedures

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## **Background:**

UDS outages occur as a result of scheduled system upgrades, the implementation of patches to fix past issues, and emergency outages resulting from real-time issues with the application. These situations require Generation Dispatchers to manually dispatch the system for the duration of the UDS outage. Market Operations require manual dispatch information in order to develop LMPs for the period of the outage “after the fact”.

## **Real-Time Actions during Scheduled and Emergency UDS Outages:**

Generation Dispatchers, as a part of shift turnover, should print a current copy of the incremental from the PJM EMS Manual Economic Dispatch display. This is done as a precaution for potential situations where UDS and EMS both fail. Updated incrementals allow Generation Dispatchers to continue dispatching the system as they have updated cost and unit increment information.

Just prior (or as soon as possible) to the UDS outage (scheduled or emergency), PJM Generation Dispatchers should take the following actions:

1. Send an All-Call message to the entire market advising of the loss of UDS and the intent to dispatch the system manually.
2. Turn UDS control to OFF on the PJM RTO Overview Display in the EMS and GMS (failure may turn it off).
3. Use the Manual Economic Dispatch (ManED) display to enter and send manual cost signals. Cost changes must be entered into the EMS and GMS systems.
4. Document all cost changes and active constraints.
5. Validate auto-log in the Smartlogs application.

## **Return to UDS Control:**

1. Send an All-Call message to the entire market advising of the return to UDS control.
2. Turn UDS control to the “ON” mode on the PJM RTO Overview Display in the EMS and GMS.
3. Save a copy of the Manual Dispatch spreadsheet to the G drive/SS/Manual Economic Dispatch.
4. Send a copy of the Manual Dispatch spreadsheet to Market Operations.
5. Close Smartlog entry.