

IMM Proposal: Reserve Deployment

RCSTF

April 17, 2024

IMM



Monitoring Analytics

Recent Synchronized Reserve Performance

- **Some units continue to underperform due to communications problems.**
- **In the Feb 24, 2024 event:**
 - **1,156 MW failed to perform out of 1,882 MW assigned (61 percent underperformance).**
 - This was an MAD event. Only MAD resources were required to perform.
 - **The IMM identified 1,041 MW that failed to perform due to communication problems. This means that at least 90 percent of the underperformance was driven by communication problems.**

Communication Problems

- **The communication problems continue to be:**
 - **Reserve units waiting for phone call from PJM for deployment.**
 - **Time lag between initiation of the ALL CALL, including time for call to be received, calls from market operator to the plant, and the time at which the plants receive the instruction to deploy. This is caused by reliance on phone calls and not electronic signals.**
 - **Deployment lags from the required switch to manual ramp from automatic dispatch signal for some resources.**

Communication Problems

- **There is no reason these problems cannot be resolved quickly.**
- **Improving reserve deployment should be a priority.**
- **Issues and solutions should be staged in order to permit prompt implementation of solutions to the identified communications problems.**
- **Addressing all topics in the stakeholder process prior to identifying and implementing solutions will likely delay the creation and implementation of solutions to the identified communication problems.**



Proposed Deployment Solution

- **All cleared synchronized reserve resources will receive an automated signal.**
- **All cleared synchronized reserve resources will have an obligation to respond based solely on the automated signal, without verbal confirmation from PJM, including hydro and condensers.**
- **Deployment MW will be added to preexisting RT SCED dispatch MW.**
- **Deployment MW will be incorporated in the RT SCED calculation for subsequent solutions during events.**

IMM Proposal

- **The IMM proposes that the RCSTF move the changes related to synchronized reserve event deployment to a vote at the May 15, 2024, meeting.**
- **The proposed changes require only updates to the PJM manuals, no FERC filing.**
- **The other design components require further development and discussion. Those topics include:**
 - **Penalties**
 - **Reserve requirements**
 - **Offer structure**
 - **New uplift payments**

Monitoring Analytics, LLC

2621 Van Buren Avenue

Suite 160

Eagleville, PA

19403

(610) 271-8050

MA@monitoringanalytics.com

www.MonitoringAnalytics.com

