

# Synchronized Reserve Deployment <100%

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- Loss of a large unit
- Low ACE for an extended period of time
- Shared Reserves called by NPCC, and PJM cannot cover its portion by Regulation alone
- Transfer Interface Overload

- Evaluation of ACE, system frequency, system load, tie line schedules
  - Load increasing or decreasing
- Other units ramping on or off
- Regulation position
- Dispatchable units available
- Magnitude of unit loss ( DCS )

- PJM Manuals (M12 4.1.2) say that we can implement partial reserve deployments now
  - We do not have a mechanism to do so
- Proposal is to move to AGC to update resource basepoints for spin deployment
  - This will provide the capability to deploy partial synchronized reserves
  - This functionality will be for future use once performance is corrected

– PJM anticipates that future generation will be able to respond much faster

- Double spinning activated
- DCS size unit trips and GD needs recovery and does not want to over compensate
- Reliability ( low ACE ) and GD does not need all of assigned synchronized reserves

- NERC BAL-002-3, Disturbance Control Standard
  - <https://www.nerc.com/pa/Stand/Reliability%20Standards/BAL-002-3.pdf>

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