Synchronized Reserve Must Offer

EPFSTF
August 22, 2018

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Must Offer Requirement

- A new design component should be added to the EPFSTF matrix: the must offer requirement and the obligations for various resource types.
- Currently, all generating capacity resources have an obligation to offer their full capability as available to provide synchronized reserve.
- PJM checks only that 90 percent is offered (M11).
- All resources should have an obligation to offer their full capability as available to provide synchronized reserve.
Must Offer Requirement

- PJM should enforce the synchronized reserve must offer requirement by ensuring that offers are available and that resources cannot reduce their offered MW without justification.
  - No daily opt out
  - No hourly opt out
  - Self scheduled units have a must offer requirement
- Must offer requirement should be 100 percent of capability.
- Penalties should apply for failure to meet must offer requirement
Capability

• An online generating unit’s capability is the difference between the current dispatch point and the economic maximum output at the defined ramp rate for ten minutes.

• An offline unit capable of condensing has a capability equal to its economic maximum output.

• Demand resources and run of river hydro units need to submit their physical capabilities to PJM.
Capability in PJM Systems

• PJM will calculate the capability for online generating units capable of following the dispatch signal.
• All resources should have a defined and enforceable obligation to provide accurate ramp rates for all relevant points on the offer curve.
• Resource types that can provide synchronized reserves, but cannot follow the dispatch signal, must submit their true physical capability to PJM.
  • DR
  • Hydro