



Modified proposed DR Operability Changes

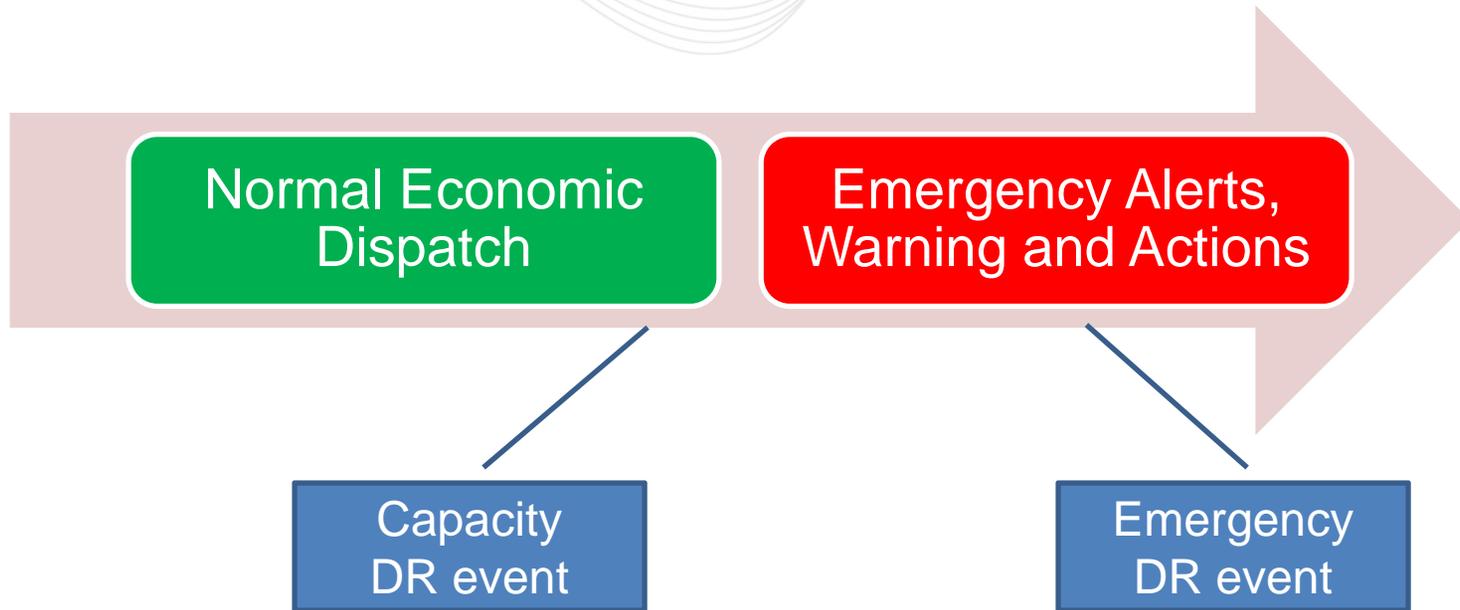
CSTF

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- Capacity DR resource (all DR with capacity commitment)
 - PJM ability to access at 2 different operational stages
 - Stage 1 – Capacity DR event
 - PJM may dispatch Capacity DR resources prior to Emergency Alerts.
 - Emergency DR Resources (behind the meter gen with environmental permit tied to emergency conditions) do not need to respond.
 - PJM will dispatch similar to how Emergency DR is dispatched today (take into consideration strike price)
 - Stage 2 – Emergency Capacity DR event
 - Dispatch same time as today
 - All DR resources (Capacity DR and Emergency DR) must respond



Proposed Requirements for DR Capacity Resources





DR Registration types and Products

-Availability to reduce load-

Market - commitment

	Limited DR (LDR)	Extended Summer DR (XDR)	Annual DR (ADR)
Capacity DR	Yes	Yes	Yes
Emergency Capacity DR (with energy)	Yes	Yes	Yes
Emergency Capacity DR (without energy)	Yes	Yes	Yes



Economic Capacity DR Availability Window

Requirement	Limited DR	Extended Summer DR	Annual DR
Availability	Any weekday, other than NERC holidays, during June – Sept. period of DY	Any day during June- October period and following May of DY	Any day during DY (unless on an approved maintenance outage during Oct. - April)
Maximum Number of Interruptions	10 interruptions	Unlimited	Unlimited
Hours of Day Required to Respond <i>(Hours in EPT)</i>	12:00 PM – 8:00 PM	10:00 AM – 10:00 PM	Jun – Oct. and following May: 10 AM – 10 PM Nov. – April: 6 AM- 9 PM

How will DR be dispatched?

- Dispatched similar to today (zone/subzone, product and lead time/strike price) but there will be two different events:
 - Capacity DR Event
 - Emergency DR Event
- Capacity DR Event will only be dispatch during product availability window.
- Only resources that use generation with environmental permit (requires EEA2) may be considered Emergency Capacity DR resources



All DR must have 30 minute lead time unless there is a physical limitation

- 14/15 opt in, 15/16 opt out
- Example – 15 minutes to communicate to customer and 45 minutes to turn off production process (otherwise equipment may be damaged) = 1 hour physical limit to respond.

Proposed communication latency standard from PJM to end use customers \leq 15 minutes



When will capacity compliance be measured?

- Capacity compliance will be measured for all Capacity DR and Emergency Capacity DR events.
 - Penalties will be assessed as necessary



Other proposed changes from matrix

- Lead time 30 minute unless physical limitation
- Strike/offer price limit by lead time
- Min event duration 1 hour (unless verified to be up to 2 hours)
- Subzone may be defined during operating day effective 14/15
- Event compliance based on event =>30 min of wall clock hour
- CSP RT energy load reduction data reporting at registration level (this is currently done by zone by lead time)
 - This is new proposed change and not in matrix.

- What is impact to registration process?
 - Registration will be similar except Emergency DR registration will be modified to identify Capacity DR vs Emergency DR resources
- Is Emergency DR or Capacity DR resource required to have an economic registration?
 - No



Appendix

- Today

- Emergency DR Full
 - Capacity & Energy



- Proposed

- Capacity DR
- Emergency Capacity DR

- Emergency DR Capacity Only
 - Capacity



- Emergency Capacity DR

“Emergency DR” only needs to respond to Emergency DR events and Capacity DR must respond to Capacity and Emergency DR events