

Primary Frequency Response Sr. Task Force (PFRSTF) Inertial Response



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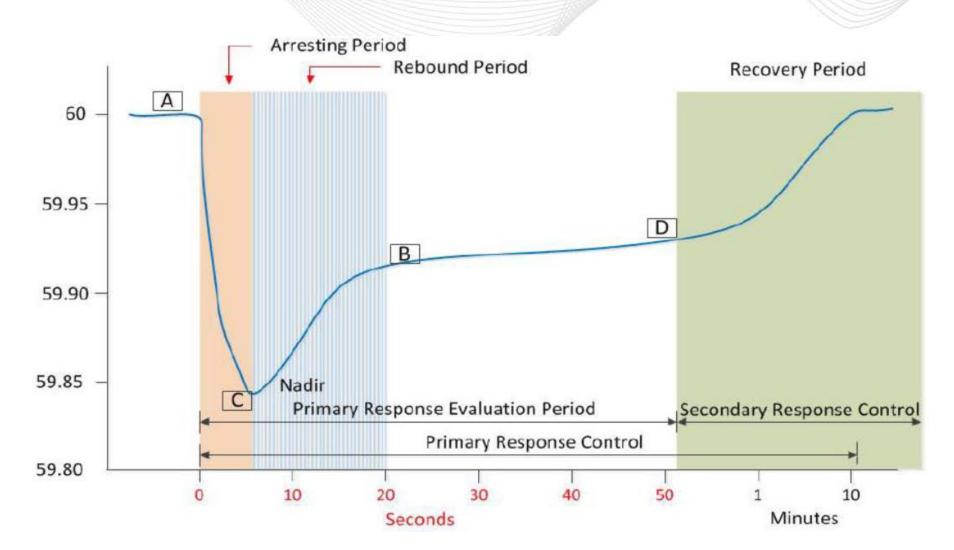


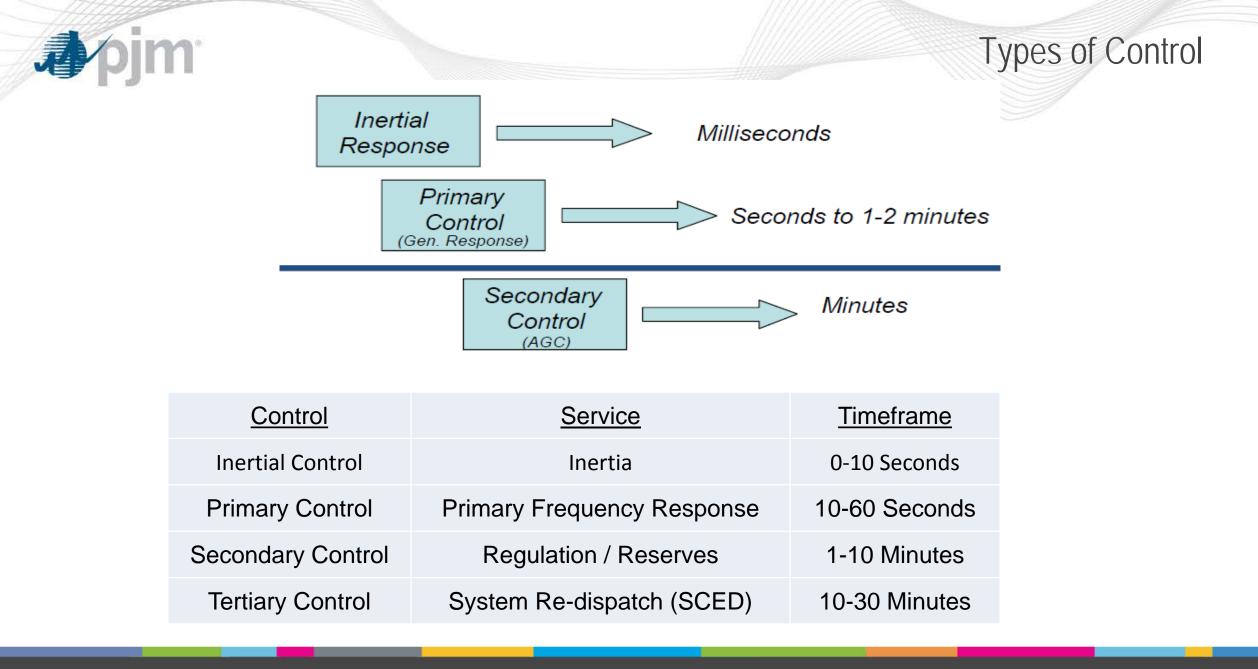
Inertia Response

- Kinetic energy stored in the rotating mass of all of the synchronized turbine-generators and motors on the interconnection
- Produced by the slowing of the spinning inertial mass of rotating equipment on the interconnection that both releases the stored kinetic energy and arrests the decline of the interconnection frequency
- Happens immediately following a disturbance



Classic Frequency Excursion Recovery







- PJM is NOT proposing to separate Inertial response from PFR
 - Not seeing a reliability problem with inertia
 - System Planning evaluates in stability studies
 - Eastern Interconnection has adequate inertial response
 - Difficult to separate inertia from overall PFR
 - Difficult to measure
 - No MW "response"
 - Much of inertia comes from load
 - No costs associated with inertia