

BA/ Region	PFR Tariff/Manual Requirements & Activities
ISO-NE	<p>Requirement: Operating Procedure 14 requires: to provide, maintain and operate a “functioning governor” on each Generator with a capability of ten (10) MW or greater. For the purposes of this procedure a “functioning governor” includes hardware or software that provides autonomous frequency-responsive power control. Addresses Droop, Dead band and Outer loop controls</p>
MISO	<p>Requirement: All regulation/reserve resources to be PFR capable Activities: Collaboration calls with generators; periodically runs performance tool for feedback</p>
Duke	<p>Activities: Revised GE control packages on CTs/CCs and modified the CTs/CCs Siemens controls similarly. FRMS for that BA improved by approximately 50% from 3 years ago.</p>
TVA	<p>Activities: Project underway to have fleet frequency responsive by Q4 2019</p>

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SCEG	Activities: In 2015 installed the simple PFR throughout its fleet on scheduled outages on its hydro, combined cycle and steam units. The last steam plant being complete in spring of 2017. SCEG PFR increased 3 fold in 2017.
SOCO	Activities: Droop and Deadband setting updates 100% complete, Outer loop control system being worked with MOD-27, 30% completion target by July 1, 2018
FPL	Activities: Began monitoring PFR in 2008 when no units can provide sustain PFR. FPL underwent fleet-wide control system modification and now all units provide PFR at all times.

Primary Frequency Response initiatives and activities also being conducted in other areas of Eastern Interconnection