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# NERC Control Performance Standard (CPS1)

March 18, 2008

# CPS1 Comparison Considerations

- At the February Texas RE Board Meeting – a request to compare ERCOT's CPS1 scores with other ISOs
  - CPS1 is a frequency-sensitive evaluation of how well a Balancing Authority's demand requirements were met
    - A CPS1 score of 200% is perfect (actual measured frequency equals scheduled frequency over any 1-minute period)
    - The minimum passing long-term (12-month rolling average) score for CPS1 is 100%
  - CPS1 is a 12-month rolling average that recognizes that certain intervals will not have ideal performance and certain seasons may not be as well managed

# CPS1 Comparison Considerations

- Each interconnection is assigned its own target frequency bounds or benchmark for “frequency noise”
- The ERCOT Interconnection’s target benchmark for allowable “noise” is 30 milli-hertz
  - Eastern Interconnection – 18.0 milli-hertz
  - Western Interconnection – 22.8 milli-hertz
- Since the “frequency noise” target set for each Interconnection is on the order of 1.6 times historic “frequency noise”, NERC has suggested that an average score of ~160% is needed to achieve historic frequency performance (not a requirement)

# CPS1 Historical Comparison

