10.6.1.2 TSP and DSP Testing Requirements for EPS Metering Facilities

(1) At a minimum, the TSP and DSP EPS Meter Inspector shall conduct testing of EPS Meters on an annual basis, within the same month of each year as the previous year’s test. Metering Facilities used in the ERCOT system for settlement must be tested pursuant to the TSP or DSP tariffs, the Settlement Metering Operating Guide and these Protocols.

(2) Instrument transformers used in settlement metering circuits must be tested per the American National Standards Institute (ANSI) C12.1, Code for Electricity Metering, and the following guidelines:

(a) Magnetic Instrument Transformers do not require periodic testing;

(b) Coupling Capacitor Voltage Transformers (CCVTs) shall be monitored by the TSP or DSP to ensure the phase voltages are within 1.6% of each other 98% of the time unless a reasonable explanation can be made after review of the data:

(i) In the case of a failure of 10.6.1.2 (2)(b) the TSP or DSP would perform the following field test during the next scheduled outage:

1. Power Factor/Tan-Delta Test- Apply 2kV Doble Test voltage to the primary of the CCVTS and measure the voltage and current of the secondary of the C1-1 and C2 capacitors. The measured power factor shall be less than 0.35%.
2. Capacitance Measurements - Measure the capacitance of the CCVT and the capacitance shall be within 1% of capacitance measurements taken in the field at the time of install or 2 % of nameplate capacitance.
3. Ratio Test – Perform a 10kV Doble Test on the primary of the CCVTs and measure the secondary to ensure that the ratio is within (+/-) 3% from nominal ratio of the CCVT.

(ii) If there is a failure of any of the field testing outlined in 10.6.1.2 (2)(b)(i) the TSP or DSP will replace the CCVT that is in service with the option to send it back to the manufacturer for testing and calibration.