



## SERVICE SCHEDULE 7 ELECTRIC METER TESTING AND MAINTENANCE PLAN

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### General Plan

This schedule establishes a meter maintenance and testing program for electric meters in order to ensure an acceptable degree of performance in the registration of the energy consumption of Arizona Public Service Company (Company) customers. Company will file an annual report with the Arizona Corporation Commission summarizing the results of the meter maintenance and testing program.

### Specific Plan

#### 1. Single-Phase Self Contained Meters - Non-Solid State Hybrids and Electro-Mechanical

- 1.1 Meters shall be separated into groups having common physical attributes and the average performance of each group will be determined based on the weighted average of the meter's percentage registration at light load (LL) and at full load (FL) giving the full load registration a weight factor of four (4).
- 1.2 Analysis of the test results for each group evaluated shall be done in accordance with the statistical formulas outlined in ANSI/ASQC Z1.9 – 1995 Formulas B-3, Tables A-1, A-2 and B-5. The minimum sample size shall be 100 meters when possible.

#### 2. Single Phase Self Contained Meters – Solid State

Company will monitor performance of these types of meters through the Company Metering and Billing systems.

#### 3. Three Phase Self-Contained Meters - Non-Solid State Hybrids and Electro-Mechanical

Company shall monitor installations with the following types of meters for accuracy and recalibrate as necessary according to the following schedule:

- 3.1 Three-phase meters with surge-proof magnets and without demand registers or pulse initiators: 16 years.
- 3.2 Three phase block-interval demand-register-equipped kWh meters with surge-proof magnets: 12 years.
- 3.3 Three phase lagged-demand meters: 8 years.

#### 4. Three Phase Self-Contained Meters – Solid State

Company will monitor performance for these types of meters through the Company Metering and Billing systems.

#### 5. Three Phase Transformer-Rated Meter Installations – Solid State Hybrids and Electro-Mechanical

Company will conduct a periodic testing program whereby three phase transformer-rated meter installations along with their associated equipment shall be inspected and tested for accuracy according to the following schedule:



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- 5.1 Installations with 500 to 1,000 kW load: 4 years.
- 5.2 Installations with 1001 kW to 2000 kW load: 2 years.
- 5.3 Installations over 2000 kW load: 1 year.