

**PUGET SOUND ENERGY**  
**Natural Gas Tariff**

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**RULES AND REGULATIONS (Continued)** (T)  
**RULE NO. 25: Meter Testing Procedures**

1. **PRESSURE OF GAS:** (T)
- 1. Gas pressure regulators which deliver nominal low pressure (approximately six inches of water column) to individual Customers are certified by the manufacturer prior to installation. Gas pressure regulators which deliver low pressure to distribution systems are inspected a minimum of once per year. (O)
  - 2. Gas pressure regulators which deliver in excess of nominal low pressure to individual Customers are adjusted by Company personnel at installation. These regulators are inspected by Company personnel in accordance with the Company's Gas Operating Standards. The Company also monitors the delivery pressure of large volume usage Customers. (O)
2. **METER TESTING EQUIPMENT AND PROCEDURES:** (T)
- 1. The Company uses a combination of the following equipment for testing new, rebuilt and in-service meters: (C)  
(C)
    - a. Bell provers (two cubic feet, five cubic feet, and ten cubic feet) for proving meter sizes up to 1,400 cubic feet per hour.
    - b. Sonic nozzle provers for proving meter sizes up to 1,000 cubic feet per hour.
    - c. Transfer provers for proving meter sizes from 1,400 cubic feet per hour through 150,000 cubic feet per hour. (C)
    - d. Manometers or pressure gauges for differential pressure testing meter sizes from 1,000 cubic feet per hour through 102,000 cubic feet per hour. (N)
  - 2. Meter test equipment, meter test equipment calibration, and meter test methods conform with American National Standards Institute (ANSI) standards B109.1, B109.2, and B109.3.
  - 3. Minimum acceptable accuracy for all new and rebuilt meters is 100% ± 1% at specified flow rates. New meters are tested by the manufacturer and/or, upon receipt, by the Company. An exception is allowed with the receipt of a batch shipment of new diaphragm meters with badge ratings up to 1,000 cubic feet per hour. The shipment may be sample tested in accordance with American National Standards Institute / American Society for Quality Control standard Z1.9 (1993), and the entire batch accepted or rejected on the basis of the sample test results. (C)

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**RULES AND REGULATIONS** (Continued) (T)

**RULE NO. 25: Meter Testing Procedures** (Continued)

3. **PERFORMANCE CONTROL PROGRAM AND METER CHANGEOUT:** (T)
1. The Company's performance control program, which meets the requirements of Part IV (*In-Service Performance*) of the current version of ANSI B109.1 and B109.2, allows the Company to keep particular meters in service for intervals beyond those specified in WAC-480-90-348, provided the meters tested satisfy the program's performance requirements. Eligible meters are diaphragm meters with a rated capacity of up to and including 1,000 cubic feet per hour. (O)  
(C) (O)  
(C)
  2. Each meter in the performance control program is initially assigned to a meter family according to the following characteristics: manufacturer, size, type, and set year. At the option of the Company, meters in any family may be further subdivided according to location, age, or other factors which may be disclosed by test data to have an effect on the performance of the meters. Subsequently, meter families may be modified or combined as justified by the performance records.
  3. Each meter family in the performance control program is subject to a statistical performance evaluation using a random sample of the family. The evaluations are conducted annually in accordance with ANSI B109.1 and B109.2. A meter family is considered to be acceptable if the family sample indicates (a) a minimum proportion of .80 of the family measures between 98.0% and 102.0% accurate (an "accuracy" requirement), and (b) a minimum proportion of .90 of the family measures no more than 102.0% accurate (a "not fast" requirement.) Based on the annual performance evaluation, each meter family determined to be acceptable is allowed to remain in service, subject to sample testing and review in succeeding years.
  4. Meters in families determined to require changeout or field testing are either changed or tested by December 31 of the year following such determination (i.e., by December 31 of the second year following the year of sampling). (C)
4. **ACCESS TO ADDITIONAL INFORMATION:** More detailed information concerning currently effective meter testing practices may be obtained by writing to Puget Sound Energy, Rates Department, P.O. Box 97034, Bellevue, WA 98009-9734. (T)

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