

# NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Second Revision of Sheet M-1  
Cancels First Revision of Sheet M-1

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## SCHEDULE M METER TESTING PROCEDURES

The Company shall test new meters and meters that are removed from service and intended for reuse in the manner set forth in this Schedule, as more completely described in the Company's Meter Testing Standards and Procedures.

Meter test equipment and methods used by the Company shall conform to the applicable standards of the American National Standards Institute (ANSI) and American Gas Association (AGA).

The minimum acceptable accuracy for all new and rebuilt meters is  $100\% \pm 1\%$  at specified flow rates. New meter shipments may be sample-tested in accordance with the applicable standards of ANSI and the American Society for Quality Control, and the entire batch accepted or rejected on the basis of the sample test results.

The Company's performance control program allows diaphragm meters with a rated capacity of up to and including 1,000 cf per hour to remain in service outside of the periodic testing requirements of OAR 860-23-015, provided that the meters satisfy the program's performance requirements.

Each meter in the performance control program is initially assigned to a meter family according to manufacturer, size, type, and set year. At Company's option, 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.

Each meter family in the meter sampling program is subject to an annual statistical performance evaluation using a random sample of the family. 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.

Meters in families determined to require change-out are changed by December 31st of the Year following determination of the need for change-out (*i.e.*, by December of the second year following the year of sampling).

However, if in any given Year, the number of meters required for change-out exceeds three (3) percent of the total number of meters in the Meter Sampling Program, the Company may, at its option, extend the change-out schedule so that the meter family is changed within a maximum of four (4) years from determination that change-out is required (*i.e.*, by December of the fourth year following the year of sampling). If the change-out schedule is extended, the rates collected by the Company from customers whose meters are subject to the extended schedule and are later found to not meet the accuracy requirement are deemed subject to refund to the extent that the company will provide appropriate credits to such customers based on the date when the meter family was determined to require change-out to the date the meter was replaced. Any credits will be based on the acceptable accuracy of each meter at change out.

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