



**RULE 7  
METERS AND METER TESTING PROCEDURES**

**METER TEST PROCEDURES (continued)**

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All non-contaminated, testable meters will be tested in accordance with ANSI B109.1, and B109.2, using an average of the open and check in-test results to evaluate each meter's performance. Meter testing shall be performed using a company owned meter prover that is maintained in proper adjustment and so calibrated that the error of indication shall not exceed one-half (½) percent.

**METER SAMPLE PROGRAM**

Each meter in the Statistical Sample Program will be assigned to a meter group or "family" according to its manufacturer, meter class, and set year. At the option of the company, meters in any family may be further subdivided according to meter type, size, location, age, or other factors that may be disclosed by test data to influence the performance of the meters. Subsequently, meter families may be modified or combined as justified by the performance records.

The performance evaluation of each meter family will be based on an evaluation of test results from random sampling of the family. The random sample for each family will include meters which are removed from service on a routine basis, e.g. meters not in use, too large, too small, damaged index cover, service relocation or replacement, etc. If more meters are required for testing than have been removed from service for routine purposes, a random sample of meters within that family will be removed from service and included in the sample.

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For purposes of evaluating the performance of each meter family, the analysis of the test results will exclude data on meters which are damaged, meters which do not register, meters which do not pass gas, and meters which measure either less than 90.0 percent accurate or more than 110.0 percent accurate. To ensure the accuracy of its meter proving equipment, the Company shall comply with Part VII ("Test Methods and Equipment"), of the 1992 version of ANSI publication B109.1 and B109.2, and shall be based on generally accepted statistical methods within the industry for predicting the sampling distribution of the proportion of a population, with 90% degree of confidence.

More specifically, the sampling program shall determine from a random sample of sufficient size that, nine times out of ten, as many as 80% of the meters in a meter group (population) are within the percent accuracy limits of 98.0% and 102.0% (i.e. accuracy requirement), and with no more than 10% of the meters in a group exceeding 102.0% accuracy (i.e. not fast requirement). If it is determined that fewer than 80% of the meters in a group meet the accuracy requirement or more than 10% of the meters in a meter group exceed the not fast requirement, corrective action will be taken.

Meters with capacities up to 3000cfh that have been in service ten (10) or more years as established by last set date shall be tested within a prescribed sample size. Sample size and family disposition will be determined in accordance with ANSI/ASQ Z1.4, ANSI/ASQ Z1.9, or other generally accepted industry standard.

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Corrective action shall consist of either a selective removal program to raise the accuracy performance of the group to acceptable standards or the removal of the entire group from service. The rate of

removal will be such that the required corrective action is completed as soon as practicable but not to exceed a period of two years after the year testing was performed.

(K)

(Continued)

(N)

~~(MK) refers to language~~Text formerly-on Sheet No. 11-A ~~that was previously~~is found on Sheet No. 11-B. (C)

**RULE 7  
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(N)

**METER SAMPLE PROGRAM (continued)**

However, with Commission approval, the period for removal may be extended an additional two years in any year which the total number of meters required for removal exceeds four percent of the number of meters in the Statistical Sample Program.

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If meters tested in the fourth quarter of the plan year cause a family to require additional samples that leave insufficient time to obtain the additional number of meters required to complete the sample, the company may elect to aggressive sampling in the following plan year so that a follow up determination is made within the first six months of the new plan year.

The program year shall begin on January 1 and end on December 31 of the same year. Sample data collected during a given program year will be analyzed, and a decision regarding meter family disposition will be made in the first quarter of the following calendar year.

(M) Refers to language on Sheet No. 11-B that was previously on Sheet No. 11-A.

(N)

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