

Rule No. 9

METERING

- 9-1 Meter and Regulator Installation - The Utility shall furnish, set, and maintain the meter and regulator; and the Customer shall provide and maintain, free of expense to the Utility, an unobstructed location, satisfactory to the Utility, for installation thereof as well as proper facilities, conforming to the Utility's service standards, for convenient installation, removal, and disconnection of the meter and regulator and for reading of the meter.
- 9-2 Customer's Responsibility - Customer shall exercise reasonable care in protecting the Utility's meter and other Utility-owned equipment located on Customer's premises. Only duly authorized employees or agents of the Utility, or persons authorized by law, are permitted to inspect or handle it.
- 9-3 Meter and Regulator Installation and Removal - Meters and regulators shall be installed or removed only by duly authorized employees or agents of the Utility.
- 9-4 Meter and Regulator Seals - All meters and regulators shall be sealed by the Utility. Law prohibits the breaking of seals by unauthorized persons, or tampering with meters or regulators.
- 9-5 Schedule of Meter Tests - The Utility shall test its meters in accordance with the following procedure:
- A. New Meters – The Company purchases meters with accuracy certified by the manufacture to hold calibration for a period of not less than ten years. New meters will be visually inspected prior to installation at a customer facility and only be subject to testing should damage be detected.
- B. Meters In Service – All active meters not specifically classified in section C as Large Meter type, will be assigned to a meter family type based on the vintage year, model type, and know manufacture changes. Each year, samples will be selected from each family type and tested at twenty and eighty percent of full load. Though not considered Meters In Service, the sample may include meters removed from service for cause (i.e. service upgrades, building demolition, inactive service etc.) and high bill complaint investigation within the test year with the balance consisting of randomly selected In-Service meters. The size of the samples and the pass/fail criteria use is specified by the current program, Gas Meter Statistical Sampling Program NorthWestern's Gas Meter Statistical Sampling Program will align with the ANSI Z1.4 standard. Classification of the meter family under test will be determined under the following criteria:

(continued)



Rule No. 9

METERING

- 1) Meters ten years old or newer fall within the manufactures guaranteed calibration period and will not be subject to testing.
- 2) A meter family deemed satisfactory by the ANSI test standard will stay in service subject to continued yearly testing.
- 3) A meter family that fails the initial ANSI standard will remain in service if it passed the previous year's testing however the family will be placed on a tightened inspection practice for the following year. In addition, the failed family will be analyzed and may be broken into sub-families to isolate specific make and model related problems.
- 4) All meters within the original family or refined sub-families will be recalibrated or replaced if the lot fails for two consecutive years. Corrective action will begin in the next budget cycle with completion occurring within a four-year timeframe.

C. Large Meters – A percentage of large commercial and industrial meters will be subject to test each year until 100% of the meters are tested within an established timeframe. Meters falling outside of the standard of meter accuracy as defined in section 9-8 will be recalibrated, repaired or replaced during the test cycle. The meter class and the corresponding test cycle is indicated below:

Large Meter Test Cycles

<u>Class</u>	<u>Models</u>	<u>Testing Schedule in Years</u>
2	35B, 80B, AL800, AL1000	15 years
3	250B, AL1400, AL2300, 500B, AL500	5 years
4	800 – 11000 ROTARY	5 years
5	16000 – 38000 ROTARY	3 years

9-6 Special Meter Tests - At the request of the Customer, the Utility shall, within ten days after receipt of such request, make special meter tests. Customer shall bear the cost of such tests, including meter removal and replacement, if the meter is found to be within the limits of acceptable accuracy as defined below in Rule No. 9-8. In all other cases, the Utility shall bear the cost of the test.

9-7 Replacement of Meter - Whenever a Customer requests the replacement of the meter on Customer's premise, such request shall be treated as a request for a test of such meter and, as such, shall fall under the provisions of preceding Rule No. 9-6.

(continued)



Rule No. 9

METERING

- 9-8 Standard of Meter Accuracy - The Utility shall not place in service or knowingly allow to remain in service, without adjustment, any meter that has a known error in registration of more than plus or minus two percent (2%) when passing gas at twenty percent (20%) or eighty percent (80%) of rated meter capacity with 0.5 inch water column differential.
- 9-9 Adjustment for Inaccurate Meter Registration - Whenever a tested Meter in Service is found to be fast or slow beyond the limit of accepted accuracy as defined in preceding Rule No. 9-8, the Utility shall make an adjustment based on the corrected registration for the period in which the meter was registering incorrectly, if such period is known; but for a period not to exceed six months where an undercharge has occurred. The six-month limitation does not apply in those instances where the adjustment is the result of an overcharge. In those instances, where the period of adjustment can be determined with a reasonable degree of accuracy, Customer shall be refunded all overcharges that occurred over the entire period of the incorrect meter registration. Whenever any bill or bills have been adjusted or corrected, as provided above, and whenever such adjustment amounts to \$1 or more, the Utility shall refund to Customer, or credit to Customer's account, any amount found to have been collected in excess of the proper amount; or the Utility may, within the limitations set forth above, require Customer to pay, or add to Customer's account, additional amounts due. In no event shall the period of adjustment, for either undercharges or overcharges, exceed the duration of the present Customer's occupancy. Where actual recorded data identifying errors of this nature are not available, it may be difficult, if not impossible, to determine the amount of such errors with any great degree of precision. In such instances, both the amount of meter error and the period of time over which the meter was registering incorrectly may be determined by engineering estimate.
- 9-10 Incorrect Meter Installation - In the event a Customer has been overcharged or undercharged as a result of an incorrect meter installation, the amount of the overcharge shall be adjusted and refunded to the Customer, or credited to Customer's account, if in excess of \$1. The amount of any undercharge may be adjusted and billed to Customer, provided that in no event shall such period of adjustment exceed the length of time the service has been supplied to Customer through the incorrect metering installation at the present location, or six months, whichever is less. The six-month limitation does not apply in those instances where the adjustment is the result of an overcharge. In such instances, the present Customer shall be refunded all overcharges that occurred during the Customer's occupancy.

(continued)



Rule No. 9

METERING

- 9-11 Non-Registering Meter - Where a meter has failed to register for any period, for reasons beyond reasonable control of the Utility, the Utility may estimate the charge for service during such period. Such estimate to be based upon the best available data, provided that the period for such estimated charges shall not exceed six months, and in no event for a period longer than the present Customer's occupancy.
- 9-12 Bypassing or Tampering with Metering Facilities - Customers shall not interfere in any way with the metering facilities after they have been set in place. In cases where the meter seal is broken or the working parts of the meter have been tampered with or the meter damaged or there is evidence that a bypass has been used, the Utility may render a bill for the current billing period based upon the estimated use, considering past experience under similar conditions and may, in addition thereto, charge for the actual cost of repairing or replacing said meter and connections. Service may be discontinued or refused at the premises where such bypassing or tampering has occurred until all such charges are paid; provided, however, that during the winter moratorium on termination of service (Rule No. 13-10), service shall be reconnected after the interfered with installation has been repaired; and the Utility shall continue to provide service until Commission approval of termination is obtained.
- 9-13 Conjunctive Metering - For the purpose of rendering charges, each meter upon the Customer's premises shall be considered separately and readings of two or more meters shall not be combined except as follows:
- A. Where combinations of meter readings are specifically provided for in applicable rate schedule.
 - B. Where the maintenance of adequate service and/or where the Utility's operating convenience shall require the installation of two or more meters upon Customer's premises, instead of one meter.
- (The application of Paragraph (b) shall be determined by the nature of the meter installation, which would be made for new Customers enjoying a similar character of service.)
- 9-14 Transportation Service Metering - Rate Schedule GTC-1 details the metering requirements for gas transportation service.
- 9-15 AMI Opt-Out Provision - Through an opt-out application, a qualifying Residential Customer, who pays the residential rate set forth in Schedule No. D-RG-1, can opt out of an advanced meter infrastructure ("AMI") natural gas endpoint. The application for Utility's Opt-Out provision is

(continued)



Rule No. 9

METERING

available on Utility's website or Residential Customer can request it be sent by mail. Residential Customer must submit a complete application to be considered for this AMI Opt-Out provision. Any Residential Customer who opts out under this provision is ineligible to: (1) be served under a time-based rate, if available, or (2) participate in any other future services or offerings that use an advanced meter endpoint. The opted-out service is required to have a meter and residence on the same joined property (excluding apartments, condos, and similar multi-unit dwellings).

If a Residential Customer opts out, Residential Customer will have the option of retaining their existing AMR meter or Utility will remove the Encoder Receiver Transmitter (ERT) from the existing AMR meter allowing the meter to be a non-communicating meter on the Residential Customer's premise. Opted-out meters under this provision will be manually read by Utility, unless the Customer chooses to self-read the meter. Utility may refuse to provide service under the utility-read option if such service: a) creates a safety hazard to customers, the public, or Utility's personnel or facilities; and/or b) Residential Customer does not allow Utility's employees or agents access to the meter at the Residential Customer's premises for maintenance, connection/disconnection, meter reading or any other utility need. Residential Customer removed or precluded from the utility-read option can choose the self-read option, if not precluded, or installation of an AMI endpoint. If Residential Customer is removed or precluded from having their meter read under the utility-read option, Utility can require an AMI endpoint be installed if Residential Customer has (1) refused the self-read option; (2) been removed or precluded from the self-read option; or (3) Residential Customer declines to allow or prevents Utility or its agents from accessing the meter on Residential Customer's premises for maintenance or service.

Residential Customer may self-read opted-out meters as long as Residential Customer meets the criteria set forth in this provision. If a self-read Residential Customer fails to provide a timely monthly reading on the scheduled read date (or within three (3) days prior) as reflected on their billing statement, Utility will estimate Residential Customer's usage for that month. Residential Customers are encouraged to self-read meters monthly, but must report meter reads no less than once every calendar quarter. If Residential Customer's reported usage deviates greater than 5% from the amount recorded during an audit, Residential Customer will be removed from the self-read program and default to the utility-read option going forward. If Residential Customer fails to provide a timely self-read three times in a twelve-month period, Residential Customer will be removed from the self-read program and placed on the utility-read option, if eligible, or will be given the option to have an AMI endpoint installed. If Residential Customer is removed from the self-read option and is ineligible for the utility-read option, Utility may require an AMI endpoint be installed at Residential Customer's premises.

Utility may discontinue or refuse to provide service to Residential Customer who (1) declines or refuses an AMI endpoint; (2) is precluded or removed from the self-read option; and (3) is ineligible for the utility-read option.

