

AVISTA CORPORATION
dba Avista Utilities

WASHINGTON
RULES AND REGULATIONS - continued

13. ESTABLISHMENT OF CREDIT/DEPOSITS: - continued

(e) Furnishing of a satisfactory guarantor to secure payment of bills for service requested in a specified amount not to exceed the amount of cash deposit which may be required.

(f) Demonstration that applicant is a satisfactory risk by appropriate means including, but not limited to, the production in person at a listed business office of two major credit cares, or other credit references, which may be quickly and easily checked by the utility.

(2) Non-Residential. Applicant may be required to demonstrate that it is satisfactory credit risk by reasonable means appropriate under the circumstances.

B. Deposits

(1) Deposit Requirements. The Company may require a deposit under any of the following circumstances: provided, that during the winter period no deposit may be required of a customer who, in accordance with WAC 480-90-113 (5)(c), has notified the Company of inability to pay a security deposit and has satisfied the remaining requirements to qualify for a payment plan.

(a) Where the applicant has failed to establish a satisfactory credit history or otherwise demonstrate that it is a satisfactory credit risk, in the manner prescribed above;

(b) When, within the last 12 months an applicant's or customer's similar class of service has been disconnected for failure to pay amounts owing, to any gas or electric utility;

(c) There is an unpaid, overdue balance owing to any gas or electric utility for similar class of service;

(d) Three or more delinquency notices have been served upon the applicant or customer by any gas or electric company during the most recent 12 months;

(e) Initiation or continuation of service to a residence where a prior customer still resides and where any balance for such service to that prior customer is past due or owing to the Company.

(2) Amount of Deposit. In instance where the Company may require a deposit, the deposit shall not exceed two-twelfths of estimated annual billings.

(3) Transfer of Deposit. Where a customer of whom a deposit is required transfers service to a new location within the Company's service area, the deposit, plus accrued interest less any outstanding balance from the current account, shall be transferable and applicable to the new service location.

(4) Interest on Deposits. Utilities that collect customer deposits must pay interest on those deposits calculated:

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(M) Material has been transferred from Sheet 170-f.2.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation
By *Kelly Norwood*

Kelly Norwood, Vice-President, Rates & Regulation

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WASHINGTON
RULES AND REGULATIONS - continued

13. ESTABLISHMENT OF CREDIT/DEPOSITS: - continued

- (a) For each calendar year, at the rate for the one-year Treasury Constant Maturity calculated by the U.S. Treasury, as published in the Federal Reserve's Statistical Release H. 15 on January 15 of that year. If January 15 falls on a nonbusiness day, the utility will use the rate posted on the next following business day; and
 - (b) From the date of deposit to the date of refund or when applied directly to the customer's account.
- (5) Extended Payment of Deposits. Where a customer or applicant for service of whom a deposit is required is unable to pay the entire amount in advance of connection or continuation of service, the customer or applicant shall be allowed to pay 50 percent of the deposit amount prior to service, with the remaining amount payable in equal monthly amounts over the following two months with dates corresponding to the initial payment date, unless the Company and the customer have agreed upon other mutually acceptable arrangements.
- (6) Refund of Deposits. Deposits plus accrued interest shall be refunded under the following circumstances and in the following form:
- (a) Satisfactory payment. Where the customer has for 12 consecutive months following initial payment of the deposit paid for service when due in a prompt and satisfactory manner as evidenced by the following:
 - (i) The utility has not initiated disconnection proceedings against the customer.
 - (ii) No more than two notices of delinquency have been made to the customer by the utility.
 - (b) Termination of Service. Upon termination of service, the utility shall return to the customer the amount then on deposit plus accrued interest, less any amounts due the Company by the customer for service rendered.
 - (c) Refunds. Any deposit, plus accrued interest, may be applied to the Customer's account for which the deposit was collected. Upon the Customer's request, a refund in the form of a check shall be issued and mailed to the Customer within 15 days following completion of 12 months of satisfactory payment as described in (a) of this subsection. Prior to issuance of the refund, the customer may request that such check be made available at a local business office rather than sent by mail.

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(K) Material has been transferred to Sheet 170-f.1.
(M) Material has been transferred from Sheet 170-g.

Issued October 17, 2011 Effective November 21, 2011

Issued by Avista Corporation
By *Kelly Norwood* Kelly Norwood, Vice-President, Rates & Regulation

AVISTA CORPORATION
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WASHINGTON
RULES AND REGULATIONS - continued

14. DISCONTINUANCE OF SERVICE:

A. By Customer/Notice

A Customer shall be required to give notice to the Company of his intentions to discontinue service.

B. Grounds for Termination by Company

The Company reserves the right to discontinue service for any of the following reasons:

(1) For nonpayment of delinquent bills for gas service, or for nonpayment of any other proper charges, or installments, including deposit.

(2) For the use of gas for any property or purpose other than that described in the application for service.

(3) Under the flat rate service, for addition to such property or fixtures, or increase in the use to be made of gas supply without notice to the Company.

(4) For willful waste of gas through improper or imperfect pipes, fixtures, or otherwise.

(5) For failure to maintain in good order, connections, service pipes, or fixtures owned by the Customer.

(6) For tampering with any service pipe, meter, stop-cock, or seal, or any other appliances of the Company.

(7) In case of vacation of premises by the Customer.

(8) For refusal of reasonable access to property to the owner or employee of the Company for the purpose of inspecting the facilities, or for testing, reading, maintaining or removing meters.

(9) For fraudulent use of service. Whenever a fraudulent obtaining or use of service is detected, the Company may discontinue service without notice, unless the Customer makes immediate payment for the estimated amount of service that was fraudulently taken and all costs resulting from such fraudulent use. If a second offense as to fraudulent obtaining or use is detected, the Company may refuse to reestablish service subject to appeal to the Commission.

(10) For violation of rules.

(11) For payment of a delinquent balance with a check that is dishonored by a bank or other financial institution. If the customer pays with a dishonored check after the Company has issued appropriate notice, pursuant to subsection 13C, no further notice is required

(K) Material has been transferred to Sheet 170-f.2

(M) Material has been transferred from Sheet 170-h.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation

By

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AVISTA CORPORATION
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WASHINGTON
RULES AND REGULATIONS - continued

14. DISCONTINUANCE OF SERVICE: - continued

The right to discontinue service as defined in this tariff may be exercised whenever and as often as circumstances warrant, and neither delay nor omission on the part of the Company to enforce these rules at any one or more times shall be deemed a waiver of its right to enforce the same at any time.

C. Prior Notice

(1) The Company will provide Customers with written notice of disconnection either by mail, or at its option, by personal delivery of the notice to the Customer's address. If the mailed notice is elected, service shall not be disconnected prior to the eighth business day following mailing of the notice. If personal delivery is elected, disconnection shall not be permitted prior to 5:00 p.m. of the first business day following delivery. If no person is available to receive notice, notice shall be deemed served if attached to the primary door of the residence unit or business office at which service is provided. If such delivered notice is for non payment of a deposit, disconnection shall not occur prior to 5:00 p.m. of the sixth business day after written notice of the deposit requirement is mailed or delivered in person to the customer.

(2) If service is not discontinued within ten working days of the first day on which disconnection may be effected, a new notice shall be required before the service can be discontinued.

(3) All notices of delinquency or pending disconnection shall detail procedures pertinent to the situation such as providing notice of means by which the Customer can make contact with the utility to resolve any differences or avail themselves of rights and remedies as set forth in WAC 480-90-173 (complaints and disputes). The Company shall accurately state amounts owing for service(s) which are subject to disconnection. A new notice will be provided in cases where information is incorrect.

(4) Before effecting disconnection of service, the Company will make a good faith effort to reach the Customer in person, by telephone, or by additional mailed notice to advise the Customer of the pending disconnection.

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(K) Material has been transferred to Sheet 170-g.

(M) Material has been transferred from Sheet 170-h.1.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation
By *Kelly Norwood*

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WASHINGTON
RULES AND REGULATIONS - continued

14. DISCONTINUANCE OF SERVICE: - continued

(a) Where telephone contact is elected, at least two attempts to reach the Customer will be made during the Company's regular business hours. If a business or message telephone number is provided by the Customer, the Company will shall endeavor by that means to reach that Customer if unable to make contact through the Customer's home telephone. A log or record of the attempts shall be maintained a minimum of 90 days by the Company showing the telephone number called, the time of call, and details of the results of each attempt. When the company has been unable to reach the Customer by telephone, a written notice shall be mailed a minimum of three business days prior to the intended date of disconnection.

(b) Where additional written notice is elected, disconnection shall not be permitted prior to 5:00 p.m. of the third business day following mailing of such notice. The day of mailing will not be considered the first day of the three-day notice period.

(c) Additional mailed notice, telephone attempts, or delivered notice shall not be a substitute for written notice of disconnection specified in C(1) of this subsection.

D. Billing Address/Service Address

Where the service address is different from the billing address, the Company will provide notice to the service address in the same manner as provided the billing address. Discontinuance of service shall not occur earlier than five business days after provision of notice to the service address.

Where a Customer of record orders termination of service at a service address and the Company discovers that the actual user at the service address has no prior notice of such termination, the Company will delay termination for at least one complete business day following actual notice.

E. Prior Notice Excused

The Company does not have to notify the Customer if:

- (1) A situation exists that is immediately dangerous to life, physical safety or property;
- (2) if service is obtained through fraud;
- (3) if service is impaired; or
- (4) if law is violated.

(K) Material has been transferred to Sheet 170-h.

(M) Material has been transferred from Sheet 170-i.

Issued October 17, 2011

Effective November 21, 2011

Issued by
By

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WASHINGTON
RULES AND REGULATIONS - continued

14. DISCONTINUANCE OF SERVICE: - continued

F. Medical Emergencies

The Company will postpone termination of utility service or will reinstate service to a residential Customer for a grace period of five business days, after receiving notification of the existence of a medical emergency. When service is reinstated, payment of a reconnection charge and/or a deposit shall not be required prior to such reinstatement. Following the initial notification by the customer of the existence of a medical emergency, the company, at its option, may require the customer to submit written certification of the medical emergency from a qualified medical professional within five business days. Qualified medical professional means a licensed physician, nurse practitioner, or physician's assistant authorized to diagnose and treat the medical condition described without direct supervision by a physician. The medical certification must include the following information:

- (1) A statement that termination of service will aggravate an existing medical condition or create a medical emergency for the customer, a member of the customer's family, or other permanent resident of the premises where service is rendered;
- (2) The name of the resident whose health will be affected by the disconnection of service, and the relationship to the customer;
- (3) A description of the health condition(s);
- (4) An explanation of how the physical health of the person will be endangered by the disconnection of service;
- (5) A statement of how long the condition is expected to last;
- (6) A list of the equipment for which gas service is needed, if applicable; and
- (7) The name, title, and signature of the person certifying the medical emergency.

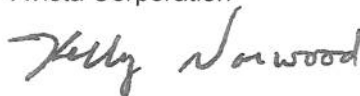
If the Company does not receive a certificate of medical emergency within the time limits set herein, the Company may disconnect service following an "additional notification" prior to disconnect. The written medical certification shall be valid only for the length of time the health endangerment is certified to exist but no longer than 30 days without renewal.

(K) Material has been transferred to Sheet 170-h.1.
(M) Material has been transferred from Sheet 170-i.1.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation
By



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WASHINGTON
RULES AND REGULATIONS - continued

14. DISCONTINUANCE OF SERVICE: - continued

A medical emergency shall not excuse a customer from paying delinquent and ongoing charges. During the five business day period, in conjunction with the provision of medical certificate, the Company, at its option, may require the Customer to pay 10 percent of the delinquent balance and enter into an agreement to pay the entire remaining delinquent balance within 120 days and pay subsequent bills when due. The Company shall send a notice confirming the payment arrangements within two business days.

If the Customer fails to abide by the terms of the payment agreement, service may be disconnected following notification of the customer in person, or by additional mailed notice as provided Section 14(4). If telephone contact is elected, the Company must make contact with the Customer.

G. Third Party Notification

Any Customer may designate a third party to receive notice of termination or other matters affecting the provision of service. When the Company discovers that a Customer appears to be unable to comprehend the impact of a termination of service, it will consider an appropriate social agency to be third party. The Company will not effect termination until five business days after notice to third party. The Company will inform the Commission which agencies and position titles receive such notification.

H. Restrictions on Termination

Except in case of danger to life or property, no disconnection shall be accomplished on Saturdays, Sundays, legal holidays or on any other day on which the Company cannot reestablish service on the same or following day.

Service shall not be terminated pending resolutions of complaints filed with the Commission, provided any amounts not in dispute are paid when due.

I. Restoration of Service

The Company will restore service when the causes of discontinuance have been removed and payment of all proper charges due from the Customer including any proper deposit and the reconnection charge set forth in this tariff has been made.

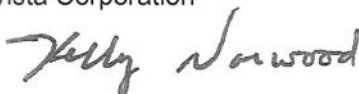
J. Disconnection Visits. A personal visit performed by a Company representative to a service address subsequent to satisfying the provisions under Section 14-C, shall be deemed a disconnection visit. An \$8.00 fee will be assessed for disconnection visits that have one of two results: 1) collection of payment from the Customer, and 2) the customer makes representation of payment. The Customer will receive one free disconnection visit on a 12-month rolling basis.

(K) Material has been transferred to Sheet 170-i. (M) Material has been transferred from Sheet 170-j.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation
By



Kelly Norwood, Vice-President, Rates & Regulation

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WASHINGTON
RULES AND REGULATIONS - continued

15. RECONNECTION CHARGE:

All applicable charges shall be paid before service is restored. If such arrangements include an employee picking up payment at the customer's premise, such payment shall be in the form of a check or money order or receipt of payment from a designated payment agency unless the Company determines that conditions warrant otherwise. Conditions that warrant Company review include medical emergencies or a Customer disconnected in error.

15.1 Reconnection Charge

When service has been discontinued for failure of the Customer to comply with the Company's rules and regulations under this tariff including default (nonpayment), a charge shall be made for reconnection. The charge for reconnection shall be:

\$16.00, provided satisfactory arrangements for payment of all proper charges have been made during the hours of 8:00 a.m. through 4:00 p.m. Monday through Friday, except holidays; or

\$32.00 if such arrangements are made during the hours of 4:00 p.m. through 7:00 p.m. Monday through Friday, except holidays.

If such arrangements are made during hours other than the above, the reconnection shall be completed on the following day except for medical emergencies or a customer disconnected in error. Any reconnection completed on a weekend or holiday will be charged \$32.00.

15.2 Gas Reestablishment Charge

When service has been discontinued at the Customer's request and then reestablished, the Customer shall be required to pay a reestablishment charge. The charge for reestablishment shall be"

\$32.00, provided satisfactory arrangements for payment of all proper charges have been made during the hours of 8:00 a.m. through 4:00 p.m. Monday through Friday, except holidays; or

\$46.00 if such arrangements are made during the hours of 4:00 p.m. through 7:00 p.m. Monday through Friday, except holidays.

If such arrangements are made during hours other than the above, the reestablishment shall be completed on the following day except for medical emergencies. Any reconnection completed on a weekend or holiday will be charged \$46.00

(K) Material has been transferred to Sheet 170-i.1. (M) Material has been transferred from Sheet 170-j.1.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation

By



Kelly Norwood, Vice President, State & Federal Regulation

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WASHINGTON
RULES AND REGULATIONS - continued

15. RECONNECTION CHARGE: - continued

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15.3 Additional Meters at the Same Premises

Where the Company also furnishes other regulated service to the Customer at the same premises and such other service also has been discontinued, the charge will be increased by \$4.00 for each additional service reconnected at the same time.

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16. PERSONALIZED BILLING PLANS:

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Personalized Billing Plans for payment of bills for natural gas service (and electric service where applicable) are available to Customers desiring to levelize payments for such services. The Personalized Billing Plans are offered to Customers without regard to time of year, home/business ownership or duration of occupancy at current residence or place of business, unless the customer was removed from the budget program for nonpayment within the past six months or has more than a two-month balance on their current account. The Company may offer budget billing to any customer when it believes this would be in the best interest of all parties concerned.

Estimated billings furnished by the Company in connection with a Personalized Billing Plan shall not be construed as a guarantee or assurance that the total actual charges will not exceed the estimates. The Company will not pay interest on any credit balance in the Customer's Personalized Billing account.

Estimated billings, or any revision thereof, shall apply only to the premises then occupied by the Customer. If the Customer vacates such premises, the Personalized Billing Plan, with respect to that premises and for that Customer, shall immediately terminate and any amount payable by the Customer shall immediately be paid or any amount due the Customer by the Company shall immediately be refunded.

A Customer will remain on the designated Personalized Billing Plan until: (1) Customer requests removal from the plan, (2) Customer fails to pay billed (estimated) amounts, or (3) the Company notifies the Customer of the discontinuance of the Plan. In the case of Customer non-payment, if the Customer eliminates the delinquency, removal from the Plan will not occur. If the Customer does not eliminate the delinquency, the Customer will be removed from the Plan and the Company may discontinue service under the provisions of WAC 480-90-128.

(M)(T)

(K) Material has been transferred to Sheet 170-j.
(M) Material has been transferred from Sheet 170-k.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation

By



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WASHINGTON
RULES AND REGULATIONS - continued

16. A. COMFORT-LEVEL BILLING PLAN (CLB):

This billing plan will be based on previous or estimated future use of such services and will approximate a monthly average of the Customer's estimated annual billings. The "base plan" amount will be billed on the regular service bill each month. The Company will review each Customer's CLB plan at least once every six months. At the time of each intermediate review, the Company will recalculate the Customer's base plan amount by using the most recent twelve months of consumption history. If the recalculated amount differs by 25% or more from the previous amount, the Customer's new monthly payments will be their recalculated base plan amount. Under normal circumstances, the Company will not change the base plan amount more than twice in any twelve month period. An annual review will be completed at the twelfth month anniversary of the date the Customer began their CLB plan. At that time, the Company will recalculate the Customer's base plan amount based on the most recent twelve months of consumption history. A Customer's base plan amount may actually increase, decrease, or remain the same. If the Customer's recalculated base plan amount differs by 10% or more from the previous base plan amount, their new monthly payments will be their recalculated base plan amount. Customers with a debit balance will be given the opportunity to either pay off their balance or have it included in their CLB payments. If the Customer elects to have their debit balance included in their monthly payments, their monthly payments will equal their base plan amount plus 1/12th of their debit balance. Customers with an accrued credit balance will have the credit balance refunded to them, or may elect to keep the credit balance on their account.

A Customer who qualifies for the moratorium on termination of service as set forth in WAC 480-90-143 may, as an alternative, join the Comfort-Level Billing Plan. For those qualifying customers, the maximum limits of unpaid account balances which may be added to the estimated monthly billing during the non-moratorium months are at the sole discretion of the Company.

For customers who do not qualify for the moratorium, any unpaid account balances will typically be added to their estimated annual bill. The Customer's monthly Personalized Billing amount would then include approximately one-twelfth of the unpaid balance during the first year under the Plan.

(K) Material has been transferred to Sheet 170-j.1.
(M) Material has been transferred from Sheet 170-k.1.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation

By

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WASHINGTON
RULES AND REGULATIONS - continued

16. B. AVERAGE BILLING PLAN:

This billing plan will be based on an average of the Customer's most recent twelve monthly billings recalculated under present rates. The billed (estimated) amount will change monthly if the Customer's average billing for the most recent twelve-month period changes. If the Company has less than twelve months of billing history for the Customer's premises, all available billing history will be used to determine the average. Under normal circumstances, the Company will not refund or charge the Customer for any balance in the Customer's account (estimated versus actual charges) unless removal from the Plan occurs. A Customer with a delinquent balance outstanding with the Company may not participate in the Average Billing Plan unless the delinquency is eliminated.

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17. INTERRUPTION OF SERVICE:

The Company shall make all reasonable efforts to avoid interruption of service, and, when such interruptions occur, to re-establish service with a minimum of delay. In case the supply of service shall be interrupted or irregular or defective or fail from causes beyond its control or through ordinary negligence of employees, servants, or agents, the Company will not be liable therefore.

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When it is necessary for the Company to make repairs to or change its facilities, the Company may, without incurring any liability therefore, suspend service for such periods as may be reasonably necessary, and in such manner as to minimize the inconvenience to Customer, provided, that, when practicable, such suspension shall be during working hours regularly maintained by the Company. Police and Fire Departments affected by such suspension shall be individually notified thereof and when practicable all other customers shall be given notification, through newspaper, radio announcements or other means, a reasonable time in advance.

18. MINIMUM HEATING VALUE OF GAS:

Minimum heating value of gas supplied to a customer shall not be less than 950 BTU's per standard cubic foot of gas.

19. DELIVERY OF PRESSURE:

Gas service under this tariff normally will be supplied and maintained at the point of delivery at a pressure as close as practicable to 0.25 p.s.i.g. or seven (7) inches of water column.

Where the volume of gas supplied or the Customer's utilization thereof requires pressure in excess of 0.25 p.s.i.g., on request of the Customer the Company may designate a higher pressure and supply gas service at such pressure.

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(K) Material has been transferred to Sheet 170-k.
(M) Material has been transferred from Sheet 170-l.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation

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WASHINGTON
RULES AND REGULATIONS - continued

20. METER TEST PROCEDURES

A. Reporting.

After December 31 of each year, meter test results will be summarized, analyzed and made available at the request of the Commission. Retention and filing of records will be in accordance with WAC 480-90-353.

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B. Meter Records.

Meter history records are to be maintained in accordance with WAC 480-90-353.

C. Technical performance requirements for natural gas meters shall be per the version of ANSI B109.1 and ANSI B109.2 referenced in regulatory requirements.

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D. New Meters.

(1) New meters shall be factory tested and certified to meet accuracy criteria specified by WAC 480-90-338.

(a) Formulation of test sample sizes and analysis of test results shall be per ANSI/ASQ Z1.9-2003 (hereinafter may be referred to as the Standard) or any more current version referenced in regulatory requirements. On-going manufacturer quality control program results for specific meter types consistent with an AQL value of 1.5 overall performance (double specification limit) and AQL value of 1.0 for fast meters (single specification limit) are acceptable.

(2) Acceptance testing by the Utility prior to installation of new meters.

(a) Each meter shipment will be inspected for physical damage. Meters found to be damaged or in damaged packaging will be tested, repaired and/or calibrated or returned to the manufacturer as described herein. All costs for tests, return shipping and/or calibration to meters described in this section shall be borne by the manufacturer.

(b) Normal acceptance testing described herein, not associated with physical damage found on arrival of the shipment, will be performed by the Utility at the Utility's expense. Expanded testing for shipments found to be non-conforming through acceptance testing will be paid for by the manufacturer or the shipment returned to the manufacturer per negotiations between the Utility and the manufacturer.

(K) Material has been transferred to Sheet 170-k.1.

(M) Material has been transferred from Sheet 170-l.1.

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Issued October 17, 2011

Effective November 21, 2011

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WASHINGTON
RULES AND REGULATIONS - continued

20. METER TEST PROCEDURES: (continued)

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(c) The methodology for the new meter testing program is derived from ANSI/ASQ Z1.9-2003.

(i) Test results shall be analyzed bi-annually to insure data points are symmetrically distributed about a mean value with correlation coefficient to the normal distribution of at least .70.

(d) Acceptance testing of new domestic meters, less than 1000 CFH. A random sample of new domestic meters, selected using random number procedures, of quantity per the Standard, shall be tested against tolerances prescribed by WAC 480-90-338 and analyzed using the procedures contained in the Standard as detailed herein.

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(i) Test result analysis:

((1)) General:

((a)) Two analysis results will determine the acceptability of a lot:

((i)) The "standard deviation - double specification limit method with variability unknown" as detailed in the Standard shall be used to determine the overall acceptability of a meter type lot. Acceptable Quality Limit (AQL) for analysis will equal 1.5. Equal weight shall be given to both the upper and lower specification limit; i.e., fast and slow meters are weighted equally. The results of the "Open Test" and the "Check Test" will be averaged. The resulting average number will be used in the procedures for analysis per the Standard.

((1)) It is the intent of this rule to accomplish testing to verify, with approximately 90% certainty, that the percentage of non-conforming meters do not exceed 3% of any new meter shipment population.

((2)) It is further the intent of this specification to insure that the long-term proportion of non-conforming meters to the standard does not exceed 1.5%.

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(K) Material has been transferred to Sheet 170-I.
(M) Material has been transferred from Sheet 170-I.2.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation
By



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WASHINGTON
RULES AND REGULATIONS - continued

20. METER TEST PROCEDURES: (continued)

((i)) The "standard deviation - single specification limit method with variability unknown" as detailed in the Standard shall be used to determine the acceptability of a meter type lot in the fast direction (disadvantageous to the consumer). Acceptable Quality Limit (AQL) for analysis will equal 1.0. The results of the "Open Test" and the "Check Test" will be averaged. The resulting average number will be used in the procedures for analysis per the Standard.

((1)) It is the intent of this rule to accomplish testing to verify, with approximately 90% certainty, that non-conforming meters to the fast direction is approximately 1% or less of any new meter shipment population.

((2)) It is further the intent of this specification to insure that the long-term proportion of non-conforming meters to the standard does not exceed 1.0%.

((2)) The lot size to determine random sample quantity shall be the size of the shipment.

((3)) Sample size:

((a)) Normal inspection: per the procedures contained in the Standard utilizing tables A-2, A-3, and B-3. Normal inspection is the default inspection level.

((b)) Tightened inspection: per the procedures contained in the Standard utilizing tables A-2, A-3, and B-3.

((c)) Reduced inspection: per the procedures contained in the Standard utilizing tables A-2, A-3, and B-4.

((4)) Sample size for meter types with five (5) test histories are eligible for reduced inspection in general accordance with the guidelines contained within the Standard as modified below. Meter types may also transition from normal to tightened inspection as detailed below.

(K) Material has been transferred to Sheet 170-I.1.

(M) Material has been transferred from Sheet 170-I.3.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation

By



Kelly Norwood, Vice President, State & Federal Regulation

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WASHINGTON
RULES AND REGULATIONS - continued

20. METER TEST PROCEDURES: (continued)

(K)

((a)) Normal to tightened: Switching rules for transition from normal to tightened inspection (inspection level II to inspection level I) shall be applied if 2 out of 5 lots have been rejected on original inspection. This is per the guidelines contained in A10.3.1 of the Standard. Testing beyond the sample size for normal inspection will be paid for by the manufacturer.

((b)) Tightened to Normal: Switching rules for transition from tightened to normal inspection (inspection level I to inspection level II) shall be applied when testing has been at the tightened level and 5 consecutive batches have been acceptable on original inspection. This is per the guidelines in A10.3.2 of the Standard.

((c)) Normal to Reduced: Switching rules for transition from normal to reduced inspection (inspection level II to inspection level III) shall be applied if:

(M)

((i)) Preceding 5 lots have been on normal inspection and none have been rejected, AND

((ii)) Meter model has been in steady production without major design modifications (as determined by the Company).

((iii)) This is a modification of the guidelines contained in A10.3.3 of the Standard. Five (5) lots passing normal inspection has been specified in lieu of ten (10) lots to reflect the historically slow change in meter performance over time.

((d)) Reduced to Normal: Switching rules for transition from reduced to normal (inspection level III to inspection level II) shall be applied if:

((i)) A batch is rejected, OR

((ii)) Meter model has not been in steady production or a major design modification has occurred (as determined by the Company).

(M)

(K) Material has been transferred to Sheet 170-I.2.
(M) Material has been transferred from Sheet 170-I.4.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation
By Kelly Norwood
Kelly Norwood, Vice President, State & Federal Regulation

AVISTA CORPORATION
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WASHINGTON
RULES AND REGULATIONS - continued

20. METER TEST PROCEDURES: (continued)

(K)

((iii)) This is per the guidelines contained in
A10.3.4 of the Standard.

((5)) Random sampling per the Standard shall be discontinued if 5 consecutive lots under tightened inspection are not accepted. Acceptance procedures as detailed herein shall not be resumed until corrective action has been taken. At that time, tightened inspection procedures shall be used.

((a)) Equipment that were not eligible for random sampling that fail to meet Acceptable Quality limit (AQL) criteria, shall be returned to the manufacturer or the entire shipment may be adjusted at the manufacturer's expense.

((b)) Tested meters found to be outside the tolerances of WAC 480-90-338 shall be adjusted to 100% plus or minus .5% with no greater than .7% spread. If the meter cannot be adjusted to these standards it shall be returned to the manufacturer.

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(e) New diaphragm meters, greater than 1000 CFH.

(i) New diaphragm meters (1000 class and larger) shall be tested against metering tolerance of WAC 480-90-338.

(ii) Meters found to be outside of tolerance shall be adjusted to 100% plus or minus .5%, with no greater spread than .7%. If the meter cannot be adjusted within these standards, it shall be returned to the manufacturer.

(T)

(f) New turbine meters.

(i) New turbine meters are tested after setting.

(ii) Testing confirms a minimum of 2 points within the range of the meter.

(g) New rotary meters.

(i) Rotary meters are tested after setting.

(M)


(K) Material has been transferred to Sheet 170-I.3. (M) Material has been transferred from Sheet 170-I.5.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation

By



Kelly Norwood, Vice President, State & Federal Regulation

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RULES AND REGULATIONS - continued

20. METER TEST PROCEDURES: (continued)

(ii) Differential testing confirms a minimum of 3 points for accuracy.

E. Installed meters testing program.

(1) General: Meters shall be periodically inspected and tested against metering tolerance prescribed in WAC 480-90-338. Meters found to be outside the tolerances of WAC 480-90-338 shall be immediately adjusted or replaced. If a meter cannot be adjusted, and no replacement meter is immediately available, the inaccurate meter shall be removed and a replacement meter shall be installed as soon as possible. Service will be maintained to the customer.

(2) The methodology for sample sizes and analysis for the installed meter testing program is derived from ANSI/ASQ Z1.9-2003 (hereafter may be referred to as the Standard).

(a) Meter test results shall be analyzed bi-annually to confirm data points are symmetrically distributed about a mean value whose probability density function is calculated to have a correlation coefficient to the normal distribution of at least .70.

(3) Domestic meters, 1000 CFH and smaller: A random sample of domestic meters shall be selected, tested against tolerances prescribed by WAC 480-90-338, and analysis conducted using the Standard. Random sampling program shall begin during the 10th year after meter installation.

(a) A meter population is defined as meters of the same model, size, and purchased in the same year.

(i) Meter population is synonymous with the term lot as used in the Standard.

(ii) Major design changes to a meter model within a single year shall be a new population for sampling.

(b) Random sample, as selected by random number procedures, of meters to be tested within a population will be made at the beginning of a calendar year. The random sample may be modified as described below.

(K) Material has been transferred to Sheet 170-I.4. (M) Material has been transferred from Sheet 170-I.6.

Issued October 17, 2011 Effective November 21, 2011

Issued by Avista Corporation
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WASHINGTON
RULES AND REGULATIONS - continued

20. METER TEST PROCEDURES: (continued)

(i) Every meter in a population will be considered eligible for testing. If service work such as a reported gas odor brings a service person to a meter during the course of the year and the required test quota of meters has not yet been completed, the meter will be eligible for substitution into the sample of the meter population for that year.

(ii) Eligibility of meters for inclusion into the test population will be tracked electronically through the Mobile Dispatch Program in conjunction with meter test program requirements. An electronic flag will alert the service person if a meter is eligible to be included in the year's test program. The service person will have the option to override the electronic flag if work load at the time does not lend itself to pulling that meter for testing.

(iii) A meter in the beginning of year random sample list for the year will then be chosen, using a random selection procedure, to be removed from the scheduled test list.

(iv) An individual meter test result of more than 10% error shall be declared a uniquely defective test and disregarded. A substitute test will be made with meter selected by random sample methods.

(c) Test result analysis:

((1)) General:

((a)) Two analysis results will determine the acceptability of a lot:

((i)) The "standard deviation - double specification limit method with variability unknown" as detailed in the Standard shall be used to determine the overall acceptability of a meter type lot. Acceptable Quality Limit (AQL) for analysis will equal 10.0.

((1)) Equal weight shall be given to both the upper and lower specification limit; i.e., fast and slow meters are weighted equally. The results of the "Open Test" and the "Check Test" will be averaged; that average will be the data point for inclusion in analysis of a meter type performance.

(K) Material has been transferred to Sheet 170-I.5. (M) Material has been transferred from Sheet 170-I.7.

Issued October 17, 2011 Effective November 21, 2011

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RULES AND REGULATIONS - continued

20. METER TEST PROCEDURES: (continued)

((2)) It is the intent of this rule to accomplish testing to verify, with approximately 90% certainty, that the proportion of non-conforming meters does not exceed 10% of any installed meter population. It is further the intent of this specification to verify through continued testing that the long-term proportion of non-conforming meters does not exceed 10%.

((ii)) The "standard deviation - single specification limit method with variability unknown" as detailed in the Standard shall be used to determine the acceptability of a meter type lot in the fast direction (disadvantageous to the consumer). Acceptable Quality Limit (AQL) for analysis will equal 10.0.

((1)) The results of the "Open Test" and the "Check Test" will be averaged; that average will be the data point for inclusion in analysis of a meter type performance.

((2)) It is the intent of this rule to accomplish testing to verify, with approximately 90% certainty, that the proportion of non-conforming meters to the fast direction is less than 10% of any installed meter population. It is further the intent of this specification to verify through continued testing that the long-term proportion of non-conforming meters does not exceed 10%.

((2)) When the percentage of non-conforming meters trends towards the AQL, inspections will be tightened per switching rules detailed herein.

(i) Table A-3 of the Standard is utilized to determine the applicable AQL curve per the intent of the testing described in paragraphs above. When this point lies between standard AQL curves on Table A-3, the AQL curve to be applied shall be chosen per Table A-1 of the Standard.

((1)) The intent of the analysis rules contained in paragraphs above applied to the Standard using Table A-3 and Table A-1 yields:

((a)) Sample size code letters B through P: AQL = 10.0

(K) Material has been transferred to Sheet 170-I.6. (M) Material has been transferred from Sheet 170-I.8.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation

By



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RULES AND REGULATIONS - continued

20. METER TEST PROCEDURES: (continued)

(ii) Inspection levels:

((1)) Normal inspection: shall be per the procedures contained in the Standard utilizing tables A-2, A-3, and B-3. Normal inspection is the default level of inspection.

((2)) Tightened inspection: shall be per the procedures contained in the Standard utilizing tables A-2, A-3, and B-3.

((3)) Reduced inspection: shall be per the procedures contained in the Standard utilizing tables A-2, A-3, and B-4.

(iii) Inspection levels for existing meter types with 5 year test histories are eligible for reduced testing per guidelines contained within the Standard. Meter types may also be subject to tightened inspection per the guidelines. Analysis of test results for the time prior to adoption of this Tariff for defined populations may be used to determine application of switching rules.

((1)) Normal to tightened: Switching rules for transition from normal to tightened inspection (inspection level II to inspection level I) shall be applied if 2 out of 5 lots have been rejected on original inspection. This is per the guidelines contained in A10.3.1 of the Standard.

((2)) Tightened to Normal: Switching rules for transition from tightened to normal inspection (inspection level I to inspection level II) shall be applied when testing has been at the tightened level and 5 consecutive batches have been acceptable on original inspection. This is per the guidelines in A10.3.2 of the Standard.

((3)) Normal to Reduced: Switching rules for transition from normal to reduced inspection (inspection level II to inspection level III) shall be applied if:

((a)) Preceding 5 lots have been on normal inspection and none have been rejected.

(K) Material has been transferred to Sheet 170-I.7.
(M) Material has been transferred from Sheet 170-I.9.

Issued October 17, 2011 Effective November 21, 2011

Issued by Avista Corporation
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RULES AND REGULATIONS - continued

20. METER TEST PROCEDURES: (continued)

((b)) This is a modification to the guidelines contained in A10.3.3 of the Standard. Five lots passing normal inspection have been specified in lieu of ten to reflect the historically slow changing performance of installed equipment.

((4)) Reduced to Normal: Switching rules for transition from reduced to normal (inspection level III to inspection level II) shall be applied if:

((a)) A batch is rejected,

((b)) This is per the guidelines contained in A10.3.4 of the Standard.

((5)) Discontinuance of random sampling, failure of meter population. A meter population shall be declared defective and removed from service when:

((a)) 3 consecutive yearly inspections for a population under tightened inspection are not accepted based on AQL of 10.0 for overall performance (double specification limit), OR

((b)) 2 consecutive yearly inspections fail tightened inspection as non-conforming fast meters in excess of WAC 480-90-338 tolerances based on an AQL value of 10.0 (single specification limit), OR

((c)) 2 consecutive yearly inspection exceed total of 20% non-conforming meters (total of fast and slow meters) under tightened inspection per standards of WAC 480-90-338 tolerances.

((6)) Tested meters found to be outside the tolerances of WAC-90-338 shall be adjusted to 100% plus or minus .5% with no greater than .7% spread. If the meter cannot be adjusted to these standards it shall be returned to the manufacturer.

(4) Installed diaphragm meters, greater than 1000 CFH.

(i) 1001 CFH through 3000 CFH: Inspected and proved every ten (10) years or sooner.

(K) Material has been transferred to Sheet 170-I.8. (M) Material has been transferred from Sheet 170-I.10.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation
By

Kelly Norwood, Vice President, State & Federal Regulation



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RULES AND REGULATIONS - continued

20. METER TEST PROCEDURES: (continued)

(ii) Larger than 3000 CFH: Inspected and proved every five (5) years or sooner.

(iii) All meters shall be tested against metering tolerance of WAC 480-90-338.

(iv) Meters found to be outside of tolerance shall be adjusted to 100% plus or minus .5% with no greater spread than .7% or be replaced.

(5) Installed turbine meters.

(i) Installed single rotor turbine meters shall be inspected and spin tested annually and determined to be within the manufactures acceptability limits. Turbine meters failing the spin test shall be removed from the field and repaired prior to any subsequent installation.

(ii) Installed auto adjust meters shall be inspected annually and determined to be operating within the manufactures acceptability limits. Meter Delta A (ΔA), the difference between the main and sensing rotor pulses, that exceed the manufactures recommended operating parameters shall be repaired or replaced.

(iii) Turbine meters that are proof tested shall be tested against metering tolerance of WAC 480-90-338. Proof tested meters found to be outside of tolerance shall be adjusted to 100% plus or minus .5% with no greater spread than .7%.

(6) Installed rotary meters.

(i) Rotary meters shall be tested by differential testing or using proving equipment.

(ii) Meters shall be inspected and tested every five (5) years or sooner.

(K) Material has been transferred to Sheet 170-I.9.
(M) Material has been transferred from Sheet 170-I.11.

Issued October 17, 2011 Effective November 21, 2011

Issued by Avista Corporation
By Kelly O. Norwood, Vice President, State & Federal Regulation

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RULES AND REGULATIONS - continued

20. METER TEST PROCEDURES: (continued)

(iii) Meters inspected by differential testing shall confirm that the meter is performing within 150% of the manufacturer's specification for differential pressure at the operating pressure.

(iv) Every meter tested by proving shall confirm that the meter is operating within the tolerances of WAC 480-90-338. Meters not performing properly shall be adjusted to be not more than two (2) percent slow or fast before being reinstalled.

F. Meter Test Equipment and Application

(1) Meter test equipment

(a) Roots 10-M Transfer Prover. The accuracy of the testing equipment is ascertained through:

(i) Monthly, in-house self testing procedures

(ii) Sending of Standard Meter Module to the manufacturer for periodic calibration. The period between factory calibration shall not exceed five (5) years.

(b) American Meter Sonic Nozzle Prover and AM Bell Prover.

(i) The accuracy of the testing equipment is ascertained through an automatic test diagnostic. The diagnostic is completed each time the prover is powered on.

(ii) The test equipment shall be factory calibrated every two (2) years.

(2) Meters

(a) Meters shall be tested on either a Sonic Nozzle, Bell Prover, or Transfer Prover.

(K) Material has been transferred to Sheet 170-I.10.

Issued October 17, 2011

Effective November 21, 2011

Issued by Avista Corporation
By

Kelly O. Norwood, Vice President, State & Federal Regulation



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