4100111

Sun Mountain Water Company
Cross Connection Regulations

Pursuant to Chapter 333, Division 61, of the Oregon Administration Rules, it is the responsibility of the Sun Mountain Water System, Inc. to protect its drinking water by instating and enforcing a cross connection program. The following regulations are hereby adopted.

Contents:

1. Definitions

1.1 Approved backflow prevention devices means a device to counteract back pressure or prevent backsiphonage. This device must appear on the list of approved devices issued by the Oregon State Health Division.
1.2 "Auxiliary supply" means any water source or system other than th public water system, that may be available on the premises.
1.3 "Backflow" means the flow in the opposite direction to the normal flow or the introduction of any foreign liquids, gases, or substances into the water system of the Sun Mountain Water Company.
1.4 SMWS shall mean the Sun Mountain Water System..
1.5 "Contamination" means the entry into or presence in a public water system of any substance which may be deleterious to health and/or quality of water.
1.6 "Cross Connection" means any physical arrangement where a public water systems connected, directly or indirectly, with another nondrinkable water system or auxiliary system, sewer, drain conduit, swimming pool, storage reservoir, plumbing fixture, swamp cooler, or any other device which contains, or may contain, contaminated water, sewage, or other liquid or unknown or unsafe quality which may be capable of contaminating the public water system as a result of backflow. Permanent or temporary devices through which, or because of which, backflow may occur are considered to be crossconnections.

1.7 "Degree of hazard" shall be derived from the evaluation a health, system, plumbing or pollution hazard.
1.8 "Health hazard" means an actual or potential threat of contamination of the public potable water system or the consumer's potable water system that would be a danger to health.
1.9 "System hazard" means an actual or potential threat of damage to the physical properties of the public or consumers potable water system or contamination that would be detrimental on the quality of the potable water in the system.
1.10 "Potable water supply" means any system of water supply intended or used for human consumption or other domestic use.
1.11 "Premises" means any piece of land to which water is provided including all improvements. mobile home(s) and structures located on it.
1.12 "Reduced pressure backflow assembly" or "RP device" shall mean an assembly containing two independently acting approved check valves together with a hydraulically-operated, mechanically independent pressure differential relief valve located between the check valves and at the same time below the first check valve. The device shall include properly located test cocks and tightly closing shut off valves at the end of the assembly. A check valve is approved if it appears on the list of approved devices issued by the Oregon State Health Division.

2. Purpose

The purpose of this ordinance is to protect the water supply of Sun Mountain Water System from contamination or pollution due to any existing or potential cross connections.

3. CrossConnection Regulated

No cross connections shall be created, installed, used or maintained within the territory served by SMWS except in accordance with these regulations.

4. Backflow Prevention Device Requirements

4.1 Backflow prevention devices shall be installed at every service connection based upon the degree of hazard. The appropriate device deemed necessary by SMWS shall be installed at residential and all commercial connections.
4.2 Backflow prevention devices shall be installed at all new residential connections.
4.3 The device shall be installed either at the sevice connection or within the premises, as determined by a certified cross connection inspector employed by SMWS.
4.4 Any mobile apparatus which uses SMWS water or water from any premises served by SMWS shall first obtain a permit from SMWS and comply with all restrictions and fees.
4.5 Across connection inspector employed by SMWS shall carry out inspections throughout each property and stipulate the type of device required.

5. Installation Requirements

To ensure proper operation and accessibility of all backflow devices, the following requirements shall apply to the installation of these devices.

5.1 No part of the backflow prevention device shall be submerged in water or installed in a location subject to flooding. If installed in a vault or basement, adequate drainage shall be installed.
5.2 All test cocks will have plugs on them.
5.3 Devices must be installed at he point of delivery of the water supply, before any branch in the line. Alternate locations must be approved by SMWS prior to installation.
5.4 Backflow device prevention assemblies shall be the type and model approved by the State of Oregon Health Division and SMWS.
5.5 The device must be protected from freezing and other severe weather conditions by the user.
5.6 Only devices specifically approved by the Oregon Health Division for vertical installation may be installed vertically.
5.7 The device shall be readily accessible with adequate room for maintenance and testing. Devices 2" and smaller shall have at least 6" clearance on all sides of the device. All devices larger than 2"shall have a minimum clearance of 12" on the backside, 24" on the test cock side, 12" below th advice and 36" above the device. "Y" pattern double check valve assemblies shall be installed so that the checks are horizontal and the test cocks face upward.
5.8 A device installed inside of the premises, 4" or larger and installed 4' above the floor, the device must be equipped with a rigid and permanently installed scaffolding acceptable by SMWS. This installation must also meet the requirements set out by the Oregon Occupational Safety and Health Codes.
5.9 RP devices may be installed inside a vault only if the relief valve discharge can be drained to daylight through a "boresight" type drain. The drain shall be of adequate capacity to carry the full rated flow of the device and shall be screened on both ends.
5.10 An approved air gap shall be located at the relief valve orifice. This air gap shall be at least twice the inside diameter of the incoming supply line as measured vertically above the top rime of the drain and in no case less than 1".
5.11 Upon completion of installation of any additional devices within the premises, the SMWS shall be notified and all devices must be inspected and tested. All backflow devices must be registered with SMWS. Registration shall consist of the date of installation, make, model, size,serial number, location and initial test report.
5.12 Any water pressure drop caused by the installation of a backflow device is not the responsibility of SMWS.
5.13 It is the responsibility of the property owner to eliminate the possibility of thermal expansion.

6. Access to Premises

Authorised employees and sub-contractors of SMWS, shall have access during reasonable hours to all parts of a premises and within the building to which water is supplied. However, if any water user refuses access to a premise or to the interior of a structure at reasonable times and reasonable notice for inspection by a cross connection inspector employed by the SMWS, a reduced pressure backflow assembly will be required to be installed at the sevice connection to that premise.

7. Annual Testing and Repairs

All testable backflow devices installed within the area served by the SMWS shall be tested immediately upon installation and least annually thereafter by a state certified tester, contracted by SMWS. All devices not found functioning properly shall be promptly repaired or replaced at the expense of the water user. If the device is not promptly repaired or replaced, the SMWS may deny or discontinue water to the premises. The SMWS shall set fees to cover the cost of this service.

8. Cost of Compliance

All costs associated with the purchase, installation, inspections, testing, replacement, maintenance, parts and repair of the backflow assembly are the financial responsibility of the property owner.

9. Termination of Service

Failure on the part of any customer to discontinue the use of cross connection assemblies and to physically remove or bypass an assembly is sufficient cause for the immediate discontinuance of public water service to the premises. Service will not be restoted until such conditions or defects are corrected. (OAR Chapter 333-061-070, section1)

10. Effective Date

These regulations shall become effective: September 2, 1997.