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**41-00862**

**Crooked River Ranch Water Company**

**Cross Connection Regulations**

Pursuant to Chapter 333, Division 61, of the Oregon Administrative Rules, it is the responsibility of the Crooked River Ranch Water Company to protect its drinking water by instituting and enforcing a cross connection control program.

A cross connection control program for the Crooked River Ranch Water Company is hereby provided.

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**1:01 Definitions**

(1) "Approved backflow prevention device" means a device to counteract back pressure or prevent backsiphonage. This device must appear on the list of approve devices issued by the Oregon State Health Division.

(2) "Auxiliary supply" means any water source or system other than the public water system, that may be available in the building or on the premises.

(3) "Backflow" means the flow in the direction opposite to the normal flow or the introduction of any foreign liquids, gases, or substances into the water system of the Crooked River Ranch Water Company.

**(4) CRRW shall mean the Crooked River Ranch Water Company.**

**(5) "contamination" means the entry into or presence in a public water supply system of any substance which may be deleterious to health and/or quality of the water.**

**(6) "Cross Connection" means any physical arrangement where a public water system is connected, directly or indirectly, with any other non-drinkable water system or auxiliary system, sewer, drain conduit, swimming pool, storage reservoir, plumbing fixture, swamp coolers, 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 imparting contamination to the public water system as a result of backflow. Bypass arrangements, jumper connections, removable sections, swivel or change over devices, or other temporary or permanent devices through which, or because of which, backflow may occur are considered to be cross connections.**

**(7) "Degree of hazard" shall be derived from the evaluation of a health, system, plumbing or pollution hazard.**

**(8) Manager means the manager of the CRRW, or authorized agent.**

**(9) "Health hazard" means an actual or potential threat of contamination of a physical or toxic nature to the public potable water system or the consumer's potable water system that would be a danger to health.**

**(10) "Plumbing hazard" means an internal or plumbing-type cross-connection in a consumer's potable water system than that may be either a pollution or a contamination-type hazard. This includes, but is not limited to, cross connections to toilets, sinks, lavatories, wash trays, domestic washing machines and lawn sprinkling systems. Plumbing-type cross-connections can be located in many types of structures including homes, apartment houses, hotels and commercial or industrial establishments.**



(11) "Pollutional hazard" means an actual or potential threat to the physical properties of the water system or the potability of the public or the consumer's potable water system but which would not constitute a health or system hazard, as defined. The maximum degree of intensity of pollution to which the potable water system could be degraded under this definition would cause a nuisance or be aesthetically objectionable or could cause minor damage to the system or its appurtenances.

(12) "System hazard" means an actual or potential threat of severe danger to the physical properties of the public or consumer's potable water system or of a pollution or contamination which would have detrimental effect on the quality of the potable water in the system.

(13) "Potable water supply" means any system of water supply intended or used for human consumption or other domestic use.

(14) "Premises" means any piece of land to which water is provided including all improvements, mobile homes(s) and structures located on it.

(15) "Reduced pressure principle device" 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.

## **1:02 Purpose**

The purpose of these regulations is to protect the water supply of Crooked River Ranch from contamination or pollution due to any existing or potential cross connections.

## **1:03 Cross Connections Regulated**

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

## **1:04 Backflow Prevention Device Requirements**

- (1) Backflow prevention devices shall be installed by CRRW at every service connection. Dual check devices shall be installed at residential connections and testable double check devices shall be installed at all commercial connections.**
- (2) The device shall be installed either at the service connection or within the premises, as determined by a certified cross connection inspector employed by CRRW.**
- (3) Any mobile apparatus which uses CRRW water or water from any premises served by CRRW shall first obtain a permit from CRRW and comply with all restrictions and fees.**
- (4) A cross connection inspector employed by CRRW shall carry out inspections throughout each property and stipulate the type of device required.**

## **1:05 Installation Requirements**

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

- (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 provided.**
- (2) All test cocks will have plugs on them.**
- (3) Devices must be installed at the point of delivery of the water supply, before any branch in the line. Alternate locations must be approved in writing by the CRRW prior to installation.**
- (4) All backflow device prevention assemblies shall be of a type and model approved by the State of Oregon Health Division and CRRW.**
- (5) The device must be protected from freezing and other severe weather conditions by the water user.**



**(6) Only devices specifically approved by the Oregon Health Division for vertical installation may be installed vertically.**

**(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 back side, 24" on the test cock side, 12" below the device and 12" ~~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.**

**(8) If written permission is granted to install the backflow device inside of the building, the device shall be readily accessible during regular working hours of 8:00AM to 5:00PM, Monday through Friday.**

**(9) A device installed inside of the premises and 4" or larger and installed 4' above the floor, must be equipped with a rigidly and permanently installed scaffolding acceptable to the CRRW. This installation must also meet the requirements set out by the US Occupational Safety and Health Administration and the State of Oregon Occupational Safety and Health Codes.**

**(10) RP devices may be installed inside a vault only if 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.**

**(11) 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 rim of the drain and in no case less than 1'.**

**(12) Upon completion of installation of any additional devices within the premises, the CRRW shall be notified and all devices must be inspected and tested. All backflow devices must be registered with the CRRW. Registration shall consist of the date of installation, make, model, size, serial number of the backflow device, location, and initial test report.**

**(13) Any water pressure drop caused by the installation of a backflow device is not the responsibility of CRRW.**

### **1:06 Access to Premises**

**Authorized employees of the CRRW, with proper identification, shall have access during reasonable hours to all parts of a premise 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 on reasonable notice for inspection by a cross connection inspector employed by the CRRW, a reduced pressure principle device will be required to be installed at the service connection to that premise.**

### **1:07 Annual Testing and Repairs**

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

### **1:08 Costs of Compliance**

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

### **1:09 Termination of Service**

**Failure on the part of any customer to discontinue the use of all cross connections and to physically separate cross connection is sufficient cause for the immediate discontinuance of public water service to the premises.**

**1:10 Effective Date**

**These regulations shall become effective July 1, 1996.**

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**John Lawson, President**

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**Wayne Ferguson, Vice-President**

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**Rawlins Apperson, Secretary-Treasurer**

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**Carolyn Koon**

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**Ralph Reaume**



## CROSS-CONNECTION CONTROL POLICY

### Crooked River Ranch Water Company

Adopted January 15, 1990 by the Crooked River Ranch Water Company Board of Directors.

The Board Members of Crooked River Ranch Water Company in the interest of preserving the water quality from pollution or contamination of any kind, adopted the following cross-connection control policy.

When a potential contamination of the water company water system exists, the water supply to the premiss shall be discontinued until an approved cross-connection control device has been installed and tested by a licensed tester.

The device or control shall be in accordance with any manuals of standard practice pertaining to cross-connection control approved by the Oregon State Health Division and the water company and any requirements set forth by the National Safe Water Drinking Act PL 93-523 and subsequent legislation. The water company shall regulate the location, installation and testing of any cross-connection device. Any corrective measure, disconnection or change on private property be at the sole expense of property owner or person in control of the water service. The cost of any change required in the water company system outside of the property or between the meter and the cut-off or disconnection, shall be the responsibility of the person in control of the water service.

Existing services and all new service where a cross-connection device is required, the person responsible for the service shall pay the entire cost of installation and equipment.

Testing of cross-connection control device shall be by a LICENSED TESTER and testing fee paid by person in control of water service. The frequency of tests shall be according to the severity of the hazard but never more than monthly. All devices with inspection ports shall be inspected at least once per calendar year.