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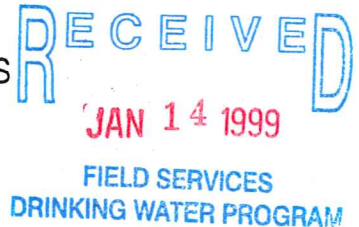
Hi Bonnie,  
I think this will work!  
1/12/99

# Fishhawk Lake Recreation Club, Inc. Policy

DRAFT 1/99

TITLE: CROSS CONNECTION PROCEDURES

SUBMITTED BY: Jim Wallace, Property Manager



This policy provides the methods and procedures for the implementation and enforcement of a cross connection control program. F.L.R.C. is Fishhawk Lake Recreation Club, Inc.

## Authority and Responsibility

Pursuant to Oregon Administrative Rules Chapter 333, Division 061- Oregon Health Division regulations for public water supply systems, it is a requirement and the responsibility of F.L.R.C. to provide water to the customers that meet Oregon water quality standards and to prevent contamination of the public water supply system. Cross connections within the plumbing systems of the F.L.R.C. members and/or owners pose potential sources for the contamination of the F.L.R.C. public water supply system. It is the responsibility of F.L.R.C. to protect its drinking water by instituting and enforcing a cross connection control program consistent with the 1998 Oregon Administrative Rules (O.A.R.) #333-061-0070 & 0071 as pertaining to public water system cross connection control program requirements for communities with less than 300 service connections.

## Purpose and Requirements

The purpose of these regulations is to protect public health and the quality of the drinking water supply in the F.L.R.C. distribution system from potential contamination by cross connection. Inspection and regulation of all actual or potential cross connections between the F.L.R.C. public drinking water system and any other source of water, potable or otherwise. is required in order to minimize the potential of contamination of the public drinking water supply system. Controlling and preventing cross connections is accomplished by either removing the cross connection or installing an approved backflow prevention device assembly to protect the public drinking water supply system.

## Definitions

Approved Backflow Prevention Device Assembly is a device designed to prevent backflow or back siphonage which is accepted by the Oregon Health Division as meeting an applicable standard and is suitable for the proposed use.

Backflow is a reversal of normal flow in the distribution system caused by a negative pressure condition (back siphonage), or by an increase in the down stream pressure above that of the distribution system pressure (back pressure).

Cross Connection is any actual or potential connection or structural arrangement between the F.L.R.C. distribution system or member and/or owner plumbing system and any other potable water system, water source system through which it is possible to introduce into any part of the F.L.R.C. distribution system any used water, any other source of water, potable or otherwise, or an industrial gas, or substance other than the intended drinking water with which the system is supplied. By-pass arrangements, jumper connections, removable sections, swivel or change-over devices, and any other temporary or permanent devices through which or because of which backflow can or may occur are considered cross connections.

Degree of Hazard is derived from an evaluation of the potential risk of the cross connection to public health, and is categorized as either high hazard or low hazard. A high degree of hazard is considered to be a risk to public health and would require maximum protection such as an air gap or reduced pressure principal backflow prevention device assembly. A low degree of hazard is not considered to be a risk to public health and would require a double check valve assembly, pressure vacuum breaker assembly, or atmospheric vacuum breaker.

## General Provisions

F.L.R.C. is required to eliminate or control all cross connections throughout the distribution system. Therefore, anyone wanting or using water from F.L.R.C. is required to comply with these general provisions. The owner of the property in which a backflow occurs is fully responsible for all damages incurred.

The circumstances which may require the installation of an approved backflow prevention device assembly, as determined by Property Manager of F.L.R.C., include but are not limited to the following:

1. If the nature and extent of any activity on the premises, or the materials used in connection with any activity on the premises, or any materials stored on the premises, could contaminate the drinking water supply in any way.
2. On premises having any cross-connection as defined under Definitions.
3. Internal cross connections that are not correctable, or intricate plumbing arrangements which make it impractical to ascertain whether or not a cross connection exists.
4. A repeated history of cross connection being established or re-established.
5. Restricted entry to premises so that inspections cannot be made to ascertain whether a cross connection exists, or failure to respond to formal inquiries about potential cross connections on the premises.
6. In-ground sprinkler systems, fire sprinkler systems, used water systems, and other directly or capable of being directly connected devices such as hot tubs, Jacuzzi's, swimming pools, hose connected pesticide spraying devices, etc. The common issue is the connection to F.L.R.C. water by devices that could cause contamination by backflow.
7. Alternate water sources not owned or controlled by F.L.R.C.

The type of backflow prevention device assembly to be installed, as determined by the Property Manager of F.L.R.C. shall be commensurate with the degree of hazard as established by the Property Manager of F.L.R.C. as generally accepted and defined by the water industry. The brand and model of the backflow prevention device assembly to be installed must be an approved device listed by the Oregon Health Division and approved by the F.L.R.C. Board of Directors.

The member and/or owner of the premise for which a backflow prevention device assembly is required, is responsible for all costs and fees associated with the purchase and installation of the backflow prevention device assembly. The member and/or owner is responsible for meeting all construction requirements associated with the installation of the approved backflow device assembly as provided in Oregon Health Division regulation OAR Chapter 333-061-0071, and

as supervised by the Property Manager of F.L.R.C. The approved backflow prevention device assembly shall be installed on the service line after the service meter, or at a location agreed to by the Property Manager of F.L.R.C. The member/owner is also responsible for the maintenance, repair, and annual testing of the backflow prevention device assembly, and for all costs and fees associated with these activities.

F.L.R.C. shall be held harmless for any changes in a plumbing system of any premise due to the installation of an approved backflow prevention device assembly as a result of thermal expansion from the water heater, or loss of pressure through the device. The Property Manager of F.L.R.C. shall notify the member and/or owner of the premise of these possibilities at the time of notification of the requirement to install an approved backflow prevention device assembly.

All approved backflow prevention device assemblies are required to be tested at least annually, and all air gaps installed in lieu of an approved backflow prevention device assembly shall be inspected at least annually. Completed test reports shall be returned to F.L.R.C. within 60 days after receipt of the annual test notification. Tests and inspections may be required on a more frequent basis at the discretion of the Property Manager of F.L.R.C.

The Property Manager shall have free access at reasonable hours of the day to all parts of a premise or within buildings to which water is supplied in order to conduct inspections. Failure of the customer to allow access shall result in the requirement to install an approved backflow prevention device assembly for a high degree of hazard.

Failure of the customer to cooperate in the installation, maintenance, repair, inspection, or testing of backflow prevention device assemblies required by these general provisions shall be grounds for termination of water service to the premise.

Any decision related to these cross connection rules which the owner and/or member considers unfair may be appealed to the Board of Directors of F.L.R.C. for a review and final decision. The appeal must be in writing and is required to be submitted to the Board of Directors of F.L.R.C. within 30 days of the original decision. All appeals decisions by the Board of Directors of F.L.R.C. related to these cross connection rules are final.

These general provisions may supersede state regulations, but in no case shall they be less stringent.

### Responsibilities — Board of Directors

The Board of Directors of F.L.R.C. will enforce the general provisions of these regulations which include but are not limited to the following program elements:

1. Enforce the requirements to install approved backflow prevention device assemblies as determined by the Property Manager of F.L.R.C.
2. Issue letters of notification of the need to install backflow prevention device assemblies as directed by the Property Manager of F.L.R.C.
3. Authorize the termination of water service to those failing or refusing to comply with these requirements.
4. Pay for training and certification of the Property Manager of F.L.R.C. as a Cross Connection Control Inspector, and all update training to maintain certification.
5. Authorize inspections of premises by the Property Manager of F.L.R.C. to determine cross connection potential and degree of hazard for the purpose of requiring the installation of the correct backflow prevention device assembly.
6. Issue a general statement of concern about cross connections to the F.L.R.C. members annually.
7. Issue reminder letters for testing of backflow prevention devices annually.

### Responsibilities — Property Manager

The Property Manager of F.L.R.C. will enforce the general provisions of these regulation which may include but are not limited to the following program elements:

1. Obtain and maintain certification training as a Cross Connection Control Inspector.
2. Maintain a list of premises where potential cross connections might occur, and inspect or inquire as to changes to the list.
3. Inspect premises for potential cross connections and determine the degree of hazard.
4. Require the installation of a backflow prevention device assembly commensurate with the degree of hazard.

5. Terminate water service to those premises who fail or refuse to comply with these regulations.
6. Maintain a list of approved backflow prevention device assemblies.
7. Maintain a list of certified backflow testers in the area.
8. Collect backflow device test reports and maintain records of activities related to the cross connection program.
9. Develop an annual summary report on cross connection program activities for the Board of Directors and present this report at the annual meeting of the membership.

The Property Manager of F.L.R.C. may delegate these responsibilities to a Certified Cross Connection Control Inspector directly employed by, or under contract with F.L.R.C. to conduct this cross connection control program.

### **Responsibilities — F.L.R.C. Members**

The members of F.L.R.C. will abide by the general provisions of these regulations which include but are not limited to the following program elements:

1. Notify the Property Manager of F.L.R.C. when any new construction or any changes to the plumbing system may constitute an actual or potential cross connection.
2. Respond to inquiries and allow premise inspections.
3. Install an approved backflow prevention device assembly commensurate with the degree of hazard as directed by the Property Manager of F.L.R.C.
4. Annual maintenance, repair, and testing of the backflow prevention device assembly.
5. Appeal any decisions related to these rules considered to be unfair to the Board of Directors in writing within 30 days of the decision.

### **Severability**

If any part of these rules is determined to be invalid or unenforceable, or the application of any part of these rules to any person or set of circumstances is determined to be invalid or unenforceable, the validity or enforceability of the remaining rules or its application to other persons shall not be affected.