

## **Surveys & Evaluation**

Evaluating the degree of hazard is to identify and remove all cross connections of either actual or potential sources of backflow or backpressure that may cause substances of toxicity or damage to the public water supply.

Containment principle of backflow prevention is the water supplier's responsibility. Containment principle of backflow prevention protects only the public water supply and does not protect the water user from himself.

Isolation principle of backflow prevention is specific protection at an individual fixture and is the responsibility and authority of local plumbing officials and water user.

The degree of hazard for determining type of backflow device for containment is responsibility of the public water supplier.

Typical types of hazards and facilities requiring backflow devices. This is a sample listing-on site evaluations may be required in some cases.

Types of Facilities	Hazards
Beverage Bottling Plants	Treated boiler or chiller systems
Canneries, Packing Houses	Steam generating equipment
Car Wash	Water cooled compressors or heat exchangers
Cooling Towers	Re-Circulating reservoirs or lagoons/Cooling Tower
Chemical Plants	Auxiliary water sources
Film Processing	Autopsy room/Mortuary
Hospitals	Bedpan washers, urinals, bathtubs, lavatories
Medical Buildings	Autoclaves & sterilizers
Dentists Offices	Garbage disposals or grinders
Health Centers	X-ray developing equipment
Laundry	Educators, aspirators, suction tees & venturi principle equipment
Marine	Laboratory equipment with water connections
Oil & Gas	Specimen tanks/Lab sinks
Metal Manufacturing	Hydro-therapy equipment/Pipette tube washers
Multi-Story Buildings	Restaurant type equipment (lunchroom & cafeteria)
Paper Product Plants	Laundry facility/Janitor sinks
Plating Plants	Irrigation system/Unprotected hose bibs
Residential	Booster pump
Schools	Submerged inlets to tanks
Grocery Stores/Carry-outs	Direct connections to machinery
Hair Care Facilities	Formulating, decanting & processing tanks or equipment
	extractors/precipitators
	Cleaning, sterilizing & flushing lines
	Rinse, dip & mixing tanks with submerged inlets
	Re-Circulating reclaim reservoirs/lagoons
	Water cooled or hydraulic operated equipment
	Washers, cookers and flumes
	treated heating systems
	Educator type lawn spraying equipment
	Hose connected sewer unclogging apparatus
	Educator type sump pumps
	drain line from hot water heater
	personal bidet
	submerged spray in the bathtub
	submerged hose in the laundry tray
	fish ponds, fountains or small pools/ponds
	Pot & pan washers
	Carbonated beverage dispenser/Coffee Maker/Ice Machine
	Janitors sink with educator attached
	Pressure cookers or steamers