

FIGURE 3: NCSD WATER ORDINANCE 2105 – SECTION 8.04

NCSD WATER ORDINANCE 2105 – BACKFLOW EXCERPT

8.04 PROTECTION REQUIREMENTS

General Provisions - Unprotected cross connections with the public water supply are prohibited.

Whenever backflow protection has been found necessary, the District will require the water user to install an approved backflow prevention device by and at his expense for continued service, or before a new service will be granted.

Wherever backflow protection has been found necessary on a water supply line entering a water user's premises, then any and all water supply lines from the District's mains entering such premises, buildings, or structures shall be protected by an approved backflow prevention device. The type of device to be installed will be in accordance with the requirements of this program.

Where Protection is Required - Each service connection from the District's water system for supplying water to premises having an auxiliary water supply shall be protected against backflow of water from the premises into the public water system unless the auxiliary water supply is accepted as an additional approved water supply by the District having jurisdiction.

Each service connection from the District's water system for supplying water to any premises on which any substance is handled in such fashion as may allow its entry into the water system shall be protected against backflow of the water from the premises into the public system. This shall include the handling of process waters and waters originating from the District's water system which have been subjected to deterioration in sanitary quality. Backflow prevention devices shall be installed on the service connection to any premises having (a) internal cross connections that cannot be permanently corrected and controlled to the satisfaction of the District or state and local health department, or (b) intricate plumbing and piping arrangements or where entry to all portions of the premises is not readily accessible for inspection purposes, making it impracticable or impossible to ascertain whether or not cross connections exist.

Type of Protection Required - The type of protection that shall be provided to prevent backflow into the approved water supply shall be in accordance with Table 1. The type of protective device that may be required, listed in an increasing level of protection, includes Double Check Valve Assembly (DC), Reduced Pressure Principle Device (RP), and Air Gap (AG). The water user may choose a higher level of protection than required by the District. The minimum types of backflow protection required to protect that approved water supply, at the user's water connection to premises with varying degrees of hazard are given in Table 1. Situations that are not covered in Table 1 shall be evaluated on a case-by-case basis and the appropriate backflow protection shall be determined by the District. The District reserves the right to install a more stringent device than listed if, in its sole judgment, the particular circumstances of that water user require a higher degree of backflow protection.

REQUIREMENTS ABBREVIATIONS- The given abbreviations for these types of devices are Air Gap Separation = AG; Reduced Pressure Principle Device = RP; Double Check Valve Assembly = DC; Double Check Detector Assembly = DCDA; and Reduced Pressure Principle Detector Assembly = RPDA.

WATER USE	DEVICE
1. Beauty Salons.....	DC
2. Board and Care Facilities, Skilled Nursing Facilities.....	DC
3. Buildings– Commercial/Industrial Multi-story over 50' in elevation above street level to ground floor.....	DC
4. Canneries, Packing Houses, and Reduction.....	RP
5. Car Wash.....	RP
6. Chemical processing or Storage Facilities.....	RP
7. Chemically Contaminated Water Systems.....	RP
8. Dairies and Cold Storage Plants.....	DC
9. Dye Works.....	RP
10. Fire Systems – Class 1 and 2.....	DC
11. Film Processing Laboratories.....	RP
12. Fire Systems – Class 3, 4, 5, and 6 (Defined in California D.H.S. Manual of Cross Connection Control)	
A. Class 3 and 4.....	DCDA
B. Class 5 and 6.....	AG/RPDA
13. Food Processing Plants.....	DC
14. Hospitals, Sanatoriums.....	RP
15. Irrigation services into which fertilizers, herbicides, or pesticides are, or can be, injected or subject to back pressure.....	RP
16. Multi-tenant (2 or more) commercial properties.....	RP
17. Laboratories.....	RP
18. Laundries, Commercial.....	DC
19. Medical Buildings, Clinics, or Veterinary Clinics.....	RP
20. Metal Manufacturing, Cleaning, Processing and Fabricating Plants.....	RP
21. Mobile Home Parks.....	DC
22. Mortuaries, Morgues, or Autopsy Facilities.....	RP
23. Oil and Gas Production, Storage, or Transmission Properties.....	RP
24. Paper Products Manufacturing Plants.....	RP
25. Plating Operations.....	RP
26. Premises with Piped Auxiliary Water Supplies where the approved supply is not physically connected to the auxiliary supply, i.e., canal well, pond.....	DC
27. Premises with booster pumps on the treated water.....	DC
28. Premises with Piped Auxiliary Water Supplies where the approved supply is connected physically to the auxiliary supply.....	RP
29. Premises with Pumped Sewage.....	RP
30. Radioactive Materials or Substances.....	RP
31. Restricted, Classified, or Closed Facilities.....	RP
32. Restaurants with Automatic Dishwashers or Steam Tables.....	DC
33. Sand, Gravel, Cement, and Ready-Mix Plants.....	DC
34. Secondary Schools and Colleges (w/o laboratories)	DC
35. Civil Works Facilities.....	DC