

Sonoma County
Fire Chiefs Association
Fire Prevention Officers Section

Supplemental Standard for NFPA-13D, Installation of Sprinkler Systems
For One- and Two-Family Dwellings, and Manufactured Home
1999 EDITION

**THE PROVISIONS FOUND IN THIS DOCUMENT SHALL EITHER AMEND, ADD OR DELETE
THOSE SECTIONS OF NFPA-13D (1999 EDITION) AS IDENTIFIED BELOW.**
(Italicized print represents amendments & Asterisk represents additions)

***1-2.1** This standard may be limited in its scope by requirements specific to a project or development. Users are *strongly* encouraged to consult with the authority having jurisdiction (AHJ) for local conditions or mitigating measures.

A-1-5.1 *At least 2 spare residential sprinklers of each type, temperature rating and orifice size Used in the system and a wrench to replace said sprinklers shall be kept in an approved cabinet on the premises. In addition, for other types of sprinklers used in the system, at least one spare sprinkler shall be provided for each type & temperature rating.*

***1-5.2.1** The installer may be required to produce certification of training from manufacturers or distributors for the installation of the respective system components.

1-5.4 *A piping inspection shall be completed prior to installation of drywall or insulation. It shall include a pressure test isolating the system from the domestic water and tested for leakage at 200 PSI for a period of two hours.*

2-1 Exception Deleted

***A-2.2.1** The piping from the municipal main to the water meter should be 1-1/2 pipe unless different pipe sizing can be supported by approved hydraulic calculations

2-3 (e) *Refer to section 3-7*

3-1.1 *Each system shall have an indicating ball style brass control valve at the base of the riser that controls both the sprinkler system and domestic water. The valve shall be installed a minimum 6" above grade and easily accessible. A separate shut-off valve for the domestic water may be installed on the system side of the control valve. Other than a water meter shut-off valve, no other system control valves are permitted.*

***3-1.1.1** Each sprinkler system shall have a single soft seated check valve installed on the system side of the control valve. Unless approved by the fire department, no additional check valves or pressure reducing valves shall be installed on the sprinkler system. If backflow devices are required by the water purveyor, the device shall be installed before the domestic connection and be reflected in the hydraulic calculations.

3-2 *A pressure gauge shall be installed on the system side of the check valve and on the supply side for systems supplied by pumps.*

3-6 *A local water flow alarm shall be provided on all sprinkler systems. Alarms shall be installed adjacent to the system riser and include a sign that reads "FIRE ALARM – CALL 911" or equivalent language acceptable to the AHJ. Alarms shall also incorporate a delay mechanism to account for pressure fluctuations and small water flows.*

***3-7** The following signs shall be provided for the system:

(a) A permanent plate labeled "INSPECTORS TEST/MAIN DRAIN" is securely affixed at the inspectors test/main drain.

(b) At the system control valve, a permanent plate which reads "WARNING; THE WATER SYSTEM FOR THIS HOME SUPPLIES A SPRINKLER SYSTEM THAT DEPENDS ON CERTAIN FLOWS AND PRESSURES TO FIGHT A FIRE. DEVICES THAT RESTRICT THE FLOW OR PRESSURE SUCH AS PRESSURE REDUCERS AND WATER SOFTNERS SHALL NOT BE ADDED TO THE SYSTEM WITHOUT A REVIEW OF THE SYSTEM BY A FIRE PROTECTION SPECIALIST. LEAVE VALVE IN THE FULLY OPEN POSITION AT ALL TIMES"

4-6 Sprinklers shall be installed in all areas.

Exception No. 3: *Full sprinklers coverage shall be provided in attached garages. Attached carports shall be protected by coverage along the separation wall between the dwelling unit and carport.*

Exception No. 4: *Sprinklers may be omitted from attics which are not intended for living purposes or storage provided that coverage is installed above the attic access and above any furnace or air handling units. Any attic areas or under-floor areas used or intended to be used for storage shall be provided with full coverage using sprinklers installed in accordance with their listing.*

Exception No. 5 is deleted.

CHAPTER 5, LIMITED AREA DWELLINGS is deleted in its entirety.