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An Organization Committed to the Well-Being of the South Placer Community

Chapter 9 – Section 903.3.1.3 – NFPA 13D Sprinkler Systems, is hereby amended by adding the following to read:

903.3.1.3.2 Automatic sprinkler systems installed within the San Juan Water District jurisdiction, after January 1, 2017, in one and two family dwellings; Group R-3; and townhomes shall be designed using an approved Modified Passive Purge System design.

Exception: When an automatic fire sprinkler system is installed with an approved backflow assembly valve to protect the public water supply source.

Chapter 80, Referenced Standards—NFPA 13D, is hereby amended by adding the following to read:

Sprinkler System Definition

3.3.11.5.1 Modified Passive Purge System. A type of sprinkler system that serves all toilets in addition to the fire sprinklers.

Aboveground Pipe

5.2.2.3 Nonmetallic pipe used in multipurpose piping systems, modified passive purge systems and passive purge systems not equipped with a fire department connection shall be designed to withstand a working pressure of not less than 130 psi (9 bar) at 120°F (49°C).

5.2.5.3 Nonmetallic fittings used in multipurpose piping systems, modified passive purge systems and passive purge systems not equipped with a fire department connection shall be designed to withstand a working pressure of not less than 130 psi (9 bar) at 120°F (49°C).

Water Supply

6.6 Modified Passive Purge

6.6.1 A modified passive purge system shall be installed in accordance with 6.6.2 through 6.6.5

6.6.2 Where a modified passive purge system is required by the AHJ, it shall be designed, subject to the approval of the local water purveyor, to the following maximum water supply source criteria at the public water service main supply point.

(1) Static Supply Pressure of 45 PSIG

(2) Residual Supply Pressure of 20 PSIG

(3) Available max daily demand flow of 1,000 GPM

Exception: Residential home systems serving an occupied area greater than 3,500 square feet may be designed using an approved public water supply system design criteria acceptable to the AHJ.

6.6.3 The hydraulic design calculations for the fire sprinkler system shall incorporate a 10% safety margin unless otherwise approved by the AHJ.

6.6.4 The piping configuration shall be designed to circulate water throughout and between each floor level by looping the piping system and maintaining minimum dead-end arm-over branch lines with a maximum length of 3 feet.

Exception: dead-end branch lines which terminate to a toilet that facilitates water circulation.

6.6.5 The piping configuration shall provide a ½ inch outlet connected to all water closets within the home to facilitate water circulation.

Installation

7.6 Alarms. Local water-flow alarms shall be provided on all sprinkler systems in homes. The local water-flow alarm shall sound between 30 and 90 seconds of water flowing in the system.